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# **METRIC EQUIVALENTS FOR THE BUILDING CODE**



Ontario

Ministry of  
Consumer and  
Commercial  
Relations



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METRIC  
EQUIVALENTS  
FOR  
THE  
BUILDING  
CODE




Ministry of  
Construction  
and  
Development  
Ontario



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## **PREFACE**

In 1978, the construction sector in Canada started the use of metric measurements.

At present, the Building Code does not prevent the use of metric measurements. Any system of measurement may be used in the design and construction of buildings, provided the requirements in the Code are met.

The metric equivalents in this document have been prepared to facilitate the application of the Code during the transition period up to sole use of metric measurements. Equivalents are provided for most imperial values in the Code.

Metric equivalents are not provided where nominal dimensions of products are used; for example, in Tables I-A, I-B and I-C, Fire and Sound Resistance Ratings, most of the measurements are nominal dimensions so equivalents for these Tables are not included.





## GUIDE TO THE USE OF THIS DOCUMENT

The first section contains metric equivalents for measurements which appear in the text of the Code. In the first column, reference is made to the Article, Sentence or Clause in which an imperial value is given; the second column shows this value; the third column shows the metric equivalent for this imperial value.

The second section contains metric equivalents for most of the Tables in the Code. The Span Tables in Part 9 are not converted individually. Instead, equivalents are given for loads and spacings, and a table is provided to assist in converting feet to metres.

The equivalents for load and spacing can be inserted in the appropriate column in the Tables.

In the table for converting feet to metres, feet are shown in the left hand column and inches are across the top of the table. To obtain an equivalent for the span, enter the table at the number of feet, read across to the appropriate inch column, and the equivalent in metres is given.

e.g. 15 ft 8 in. is equivalent to 4.78 m  
22 ft 0 in. is equivalent to 6.71 m

## LIST OF SYMBOLS

cm centimetre ( $\text{m} \times 10^{-2}$ )  
 cm<sup>2</sup> square centimetre  
 °C degree Celsius  
 db decibel  
 g gram  
 GPa gigapascal ( $\text{Pa} \times 10^9$ )  
 h hour  
 Hz hertz  
 kg kilogram ( $\text{g} \times 10^3$ )  
 kHz kilohertz ( $\text{Hz} \times 10^3$ )  
 km kilometre ( $\text{m} \times 10^3$ )  
 kN kilonewton ( $\text{N} \times 10^3$ )  
 kPa kilopascal ( $\text{Pa} \times 10^3$ )  
 kW kilowatt ( $\text{W} \times 10^3$ )  
 L litre

lx lux  
 m metre  
 m<sup>2</sup> square metre  
 m<sup>3</sup> cubic metre  
 min minute  
 MJ megajoule ( $\text{J} \times 10^6$ )  
 mm millimetre ( $\text{m} \times 10^{-3}$ )  
 mm<sup>2</sup> square millimetre  
 MPa megapascal ( $\text{Pa} \times 10^6$ )  
 N Newton  
 ng nanogram ( $\text{g} \times 10^{-9}$ )  
 Pa pascal  
 s second  
 W watt

**METRIC EQUIVALENTS  
EXCLUDING TABULAR VALUES**



Reference	Imperial Value	Metric Equivalent
<b>Definitions for:</b>		
Canopy	12 in.	305 mm
Enclosed Court	30 ft	9.14 m
Fire Load	per square foot	per square metre
First Storey	6 ft	1.83 m
High occupant load	12 sq ft	1.1 m <sup>2</sup>
Low Hazard industrial occupancy	10 lb/sq ft	48.8 kg/m <sup>2</sup>
Marquee	100,000 Btu/s ft	1130 MJ/m <sup>2</sup>
Medium Hazard	12 in.	305 mm
Industrial Occupancy	10 lb/sq ft	48.8 kg/m <sup>2</sup>
Street	100,000 Btu/s ft	1130 MJ/m <sup>2</sup>
Walkway	30 ft	9.14 m
2.2.2.(b)	30 ft	9.14 m
2.2.5.(b)	6,000 sq ft	557 m <sup>2</sup>
2.3.1.(b)	6,000 sq ft	557 m <sup>2</sup>
2.5.2.	6,000 sq ft	557 m <sup>2</sup>
3.1.1.1.(1)(b)	6,000 sq ft	557 m <sup>2</sup>
3.1.3.3.(4)	3,000 sq ft	279 m <sup>2</sup>
3.1.4.4.(6)	½ in.	12.7 mm
(b)	½ in.	12.7 mm
(7)	1 ⅞ in.	28.6 mm
(13)(a)	50 ft	15.2 m
3.1.4.5.(2)(a)(ii)	⅛ in.	0.91 mm
(d)(i)	1200°F	649°C
3.1.4.5.(3)(b)(ii)	3 ft	0.91 m
(f)	⅛ in.	0.91 mm
(g)(i)	1 in.	25.4 mm
(h)(i)	1 in.	25.4 mm
3.1.4.6.(2)	10 ft	3.05 m
(3)	10 ft	3.05 m
(4)	1,200 sq ft	111 m <sup>2</sup>
(6)	10 ft	3.05 m
(10)	300 sq ft	27.9 m <sup>2</sup>
3.1.5.5.(1)(a)	6 ft	1.83 m
	10 ft	3.05 m
(g)(i)	10 ft	3.05 m
(ii)	3 ft	0.91 m
3.1.5.6.(2)(a)	144 sq in.	930 cm <sup>2</sup>
(c)	7 ft	2.13 m
(d)	20 sq in.	129 cm <sup>2</sup>
3.1.6.2.(5)	4 in.	102 mm
3.1.7.1.(9)	1,200°F	649°C
(9)(a)	4 ft	1.22 m
(ii)	20 sq in.	129 cm <sup>2</sup>
(iii)	20 sq in.	129 cm <sup>2</sup>
(b)	22 in.	559 mm
3.1.7.2.(1)	120 sq ft	11.1 m <sup>2</sup>
	12 ft	3.66 m
3.1.7.2.(2)	240 sq ft	22.3 m <sup>2</sup>
3.1.7.3.(2)(b)(i)	¼ in.	6.35 mm

Reference	Imperial Value	Metric Equivalent
3.1.7.3.(2)(b)(ii)	1 in.	25.4 mm
	25 ASW gauge	0.455 mm
	1/2 in.	12.7 mm
	26 ASW gauge	0.404 mm
(d)(i)	1,296 sq in.	0.836 m <sup>2</sup>
	54 in.	1.37 m
(ii)	80 sq ft	7.4 m <sup>2</sup>
3.1.8.1.(4)(a)	6 in.	152 mm
(b)	36 in.	914 mm
(8)	120 sq ft	11.1 m <sup>2</sup>
	12 ft	3.66 m
(9)	240 sq ft	22.3 m <sup>2</sup>
3.1.9.1.(2)(b)	10 ft	3.05 m
(3)	100 sq ft	9.3 m <sup>2</sup>
(4)	20 sq ft	1.6 m <sup>2</sup>
(5)(a)	6,000 sq ft	557 m <sup>2</sup>
	200 ft	61.0 m
(b)	3,000 sq ft	279 m <sup>2</sup>
	150 ft	45.7 m
(7)(a)(i)	1,200°F	649°C
(iii)	1/2 in.	12.7 mm
3.1.11.1.(2)(b)	12 ft	3.66 m
	18 in.	457 mm
	2 in.	50.8 mm
(e)	10 sq ft	0.93 m <sup>2</sup>
	4 ft	1.22 m
3.1.11.2.(1)(b)(i)	1/2 in.	12.7 mm
(ii)	250°F	139°C
3.1.12.1.(2)(a)	5 ft	1.52 m
(c)	3/4 in.	19.1 mm
(d)	0.002 in.	0.051 mm
3.2.1.2.(4)(c)	42 in.	1070 mm
3.2.2.3.(1)(a)	6 ft	1.83 m
3.2.2.4.(1)(a)	30 ft	9.1 m
3.2.2.5.(2)(a)	50 sq ft	4.6 m <sup>2</sup>
	10 ft	3.05 m
(b)	5 in.	127 mm
(c)	3 ft	0.91 m
	4 in.	102 mm
(e)(ii)	2 1/2 in. per min	63.5 mm/min
	0.06 in.	1.52 mm
3.2.2.6.(2)	25 ft	7.6 m
	15 ft	4.6 m
	30 ft	9.1 m
3.2.2.8.(3)	3,000 sq ft	279 m <sup>2</sup>
3.2.2.9.(1)(b)	15 ft	4.57 m
(i)(d)	3,000 sq ft	279 m <sup>2</sup>
3.2.2.10.(1)(d)	6,000 sq ft	557 m <sup>2</sup>
3.2.2.11.(2)(c)	10,000 sq ft	929 m <sup>2</sup>
(f)	20 ft	6.1 m
3.2.2.12.(1)(b)(i)	4,000 sq ft	372 m <sup>2</sup>
(ii)	5,000 sq ft	465 m <sup>2</sup>

Reference	Imperial Value	Metric Equivalent
3.2.2.12.(1)(b)(iii)	6,000 sq ft	557 m <sup>2</sup>
3.2.2.13.(1)(c)(i)	4,000 sq ft	372 m <sup>2</sup>
(ii)	5,000 sq ft	465 m <sup>2</sup>
(iii)	6,000 sq ft	557 m <sup>2</sup>
3.2.2.14.(2)(a)	5,000 sq ft	465 m <sup>2</sup>
(c)	8,000 sq ft	743 m <sup>2</sup>
3.2.2.15.(2)(a)(i)	5,000 sq ft	465 m <sup>2</sup>
(c)	10,000 sq ft	929 m <sup>2</sup>
(f)	20 ft	6.1 m
3.2.2.15.(3)	32,000 sq ft	2970 m <sup>2</sup>
	64,000 sq ft	5950 m <sup>2</sup>
3.2.2.16.(2)(a)(i)	5,000 sq ft	465 m <sup>2</sup>
(c)	10,000 sq ft	929 m <sup>2</sup>
(f)	20 ft	6.1 m
3.2.2.17.(1)(b)(i)	10,000 sq ft	929 m <sup>2</sup>
(ii)	12,500 sq ft	1160 m <sup>2</sup>
(iii)	15,000 sq ft	1390 m <sup>2</sup>
(2)(a)(i)	5,000 sq ft	465 m <sup>2</sup>
(c)	10,000 sq ft	929 m <sup>2</sup>
3.2.2.18.(1)(b)(i)	24,000 sq ft	2230 m <sup>2</sup>
(ii)	30,000 sq ft	2790 m <sup>2</sup>
(iii)	36,000 sq ft	3340 m <sup>2</sup>
(2)(a)(i)	5,000 sq ft	465 m <sup>2</sup>
3.2.2.18.(2)(c)	10,000 sq ft	929 m <sup>2</sup>
3.2.2.19.(2)(a)(i)	5,000 sq ft	465 m <sup>2</sup>
(c)	10,000 sq ft	929 m <sup>2</sup>
(f)	20 ft	6.1 m
3.2.2.20.(2)(a)(i)	5,000 sq ft	465 m <sup>2</sup>
(c)	10,000 sq ft	929 m <sup>2</sup>
(f)	20 ft	6.1 m
3.2.2.21.(2)(b)(ii)	20 ft	6.1 m
3.2.2.22.(2)(a)	5,000 sq ft	465 m <sup>2</sup>
(c)	5,000 sq ft	465 m <sup>2</sup>
3.2.2.23.(1)(b)	2,500 sq ft	232 m <sup>2</sup>
(c)	5,000 sq ft	465 m <sup>2</sup>
3.2.2.24.(2)(f)	2,500 sq ft	232 m <sup>2</sup>
3.2.2.26.(2)(a)	5,000 sq ft	465 m <sup>2</sup>
3.2.2.27.(2)(a)	5,000 sq ft	465 m <sup>2</sup>
(c)	5,000 sq ft	465 m <sup>2</sup>
3.2.2.28.(2)(a)	5,000 sq ft	465 m <sup>2</sup>
(c)	5,000 sq ft	465 m <sup>2</sup>
3.2.2.29.(2)(a)	5,000 sq ft	465 m <sup>2</sup>
3.2.2.30.(2)(a)	5,000 sq ft	465 m <sup>2</sup>
(c)	5,000 sq ft	465 m <sup>2</sup>
3.2.2.31.(2)(a)	5,000 sq ft	465 m <sup>2</sup>
(c)	5,000 sq ft	465 m <sup>2</sup>
3.2.2.32.(2)(a)	5,000 sq ft	465 m <sup>2</sup>
(c)	5,000 sq ft	465 m <sup>2</sup>
3.2.2.33.(2)(a)	3,000 sq ft	279 m <sup>2</sup>
3.2.2.34.(2)(a)	3,000 sq ft	279 m <sup>2</sup>
(c)	5,000 sq ft	465 m <sup>2</sup>
3.2.2.35.(1)(a)	15,000 sq ft	1394 m <sup>2</sup>

Reference	Imperial Value	Metric Equivalent
3.2.2.35.(2)(a)	3,000 sq ft	279 m <sup>2</sup>
(c)	5,000 sq ft	465 m <sup>2</sup>
3.2.2.36.(2)(b)(ii)	5,000 sq ft	465 m <sup>2</sup>
3.2.2.37.(2)(a)	3,000 sq ft	279 m <sup>2</sup>
(c)	5,000 sq ft	465 m <sup>2</sup>
3.2.2.38.(2)(b)(ii)	5,000 sq ft	465 m <sup>2</sup>
3.2.2.39.(2)(a)	3,000 sq ft	279 m <sup>2</sup>
(c)	5,000 sq ft	465 m <sup>2</sup>
3.2.2.40.(2)(b)(ii)	5,000 sq ft	465 m <sup>2</sup>
3.2.2.41.(2)(a)	3,000 sq ft	279 m <sup>2</sup>
3.2.2.42.(2)(a)	3,000 sq ft	279 m <sup>2</sup>
(c)	5,000 sq ft	465 m <sup>2</sup>
3.2.2.43.(2)(a)	3,000 sq ft	279 m <sup>2</sup>
(c)	5,000 sq ft	465 m <sup>2</sup>
3.2.2.44.(2)(a)	3,000 sq ft	279 m <sup>2</sup>
(c)	5,000 sq ft	465 m <sup>2</sup>
3.2.2.45.(2)(b)(ii)	5,000 sq ft	465 m <sup>2</sup>
3.2.2.46.(2)(a)	5,000 sq ft	465 m <sup>2</sup>
(c)	10,000 sq ft	929 m <sup>2</sup>
3.2.2.47.(2)(a)	5,000 sq ft	465 m <sup>2</sup>
(c)	10,000 sq ft	929 m <sup>2</sup>
3.2.2.48.(2)(a)	5,000 sq ft	465 m <sup>2</sup>
3.2.2.49.(2)(a)	5,000 sq ft	465 m <sup>2</sup>
(c)	10,000 sq ft	929 m <sup>2</sup>
3.2.2.50.(1)(b)	70 ft	21.3 m
(c)	100,000 sq ft	9290 m <sup>2</sup>
(e)	200 ft	61 m
3.2.2.51.(2)(a)	5,000 sq ft	465 m <sup>2</sup>
(c)	10,000 sq ft	929 m <sup>2</sup>
3.2.2.52.(2)(a)	5,000 sq ft	465 m <sup>2</sup>
(c)	10,000 sq ft	929 m <sup>2</sup>
3.2.3.4.(2)	4 ft	1.22 m
3.2.3.5.(3)	10 ft	3.05 m
(4)	10 ft	3.05 m
(5)	10 ft	3.05 m
3.2.3.6.(1)(a)	10 ft	3.05 m
(b)	30 ft	9.14 m
3.2.3.7.(1)(c)	10 ft	3.05
3.2.3.9.(2)	460	273
	Fahrenheit	Celsius
	1638°F	892°C
	1700°F	927°C
	1850°F	1010°C
3.2.3.10	3 ft	0.91 m
3.2.3.11	15 ft	4.6 m
3.2.3.12	10,000 sq ft	929 m <sup>2</sup>
3.2.3.13(1)	30 ft	9.14 m
(1)(f)	20 ft	6.10 m
3.2.3.14.(1)	30 ft	9.14 m
3.2.3.16.(4)	300 ft	91.4 m
3.2.3.17.(5)	60 ft	18.3 m
(b)	4 ft	1.22 m



Reference	Imperial Value	Metric Equivalent
3.2.3.17.(5)(c)	100 ft	30.5 m
3.2.3.17.(11)	20 ft	6.10 m
3.2.4.1.(2)(b)	6,000 sq ft	557 m <sup>2</sup>
3.2.5.1.(1)	90 ft	27.4 m
	50 Lineal ft	15.2 m
(2)	42 in.	1 070 mm
	22 in.	559 mm
	36 in.	914 mm
(7)	3 in. in 12 in.	1 in 4
	22 in.	559 mm
	36 in.	914 mm
(8)(a)	3 ft	0.91 m
	6 ft	1.83 m
	2 ft	0.61 m
(a)(ii)	50 ft	15.2 m
(8)(b)	4 ft	1.22 m
3.2.5.2.(1)	75 ft	22.9 m
	42 in.	1 070 mm
	22 in.	559 mm
	36 in.	914 mm
3.2.5.4.(1)(a)	45 ft	13.7 m
(a)	75 ft	22.9 m
(b)	40,000 sq ft	3 720 m <sup>2</sup>
3.2.6.1.(1)(a)(i)	120 ft	36.6 m
(ii)	60 ft	18.3 m
	22 in.	559 mm
(b)	60 ft	18.3 m
(d)(ii)	60 ft	18.3 m
(e)	60 ft	18.3 m
3.2.6.2.(5)	250 ft	76.2 m
(c)	5 sq ft	0.46 m <sup>2</sup>
	16 sq ft	1.49 m <sup>2</sup>
(d)	22 in.	559 mm
(e)	22 in.	559 mm
(7)(a)	250 ft	76.2 m
(b)	1/3 of total area	3.59 times area
	in sq ft	in square metres
(8)(a)	120 ft	36.6 m
(b)(i)	5 ft	1.52 m
(ii)	5 sq ft	0.46 m <sup>2</sup>
3.2.6.4.(2)	24 sq ft	2.21 m <sup>2</sup>
	2,000 lb	907 kg
3.2.6.5.(4)(c)	3 ft	914 mm
(5)	10 in.	254 mm
(6)	42 in.	1 070 mm
3.2.6.6.(1)(d)	15,000 sq ft	1 390 m <sup>2</sup>
(d)(i)	15,000 sq ft	1 390 m <sup>2</sup>
3.2.6.9.(1)(a)(ii)	120 ft	36.6 m
3.2.6.11.(1)(b)(i)	120 ft	36.6 m
(ii)	120 ft	36.6 m
3.2.8.1.(1)	10 ft candles	108 lx
3.2.8.2.(1)	1 ft candle	10.8 lx

Reference	Imperial Value	Metric Equivalent
3.2.8.1.(3)	100 sq ft	9.29 m <sup>2</sup>
3.2.9.4.(1)(a)(iii)	4,000 sq ft	372 m <sup>2</sup>
	5,000 sq ft	465 m <sup>2</sup>
	6,000 sq ft	557 m <sup>2</sup>
3.2.9.5.(1)(a)(ii)	2,500 sq ft	232 m <sup>2</sup>
(b)(ii)	2,500 sq ft	232 m <sup>2</sup>
3.2.9.6.(1)(a)(ii)	2,500 sq ft	232 m <sup>2</sup>
(iii)	5,000 sq ft	465 m <sup>2</sup>
(c)	1 3/4 in.	44.4 mm
3.3.1.1.(5)(a)	1,500 sq ft	139 m <sup>2</sup>
3.3.1.4.(1)(c)	75 ft	22.9 m
3.3.1.4.(1)(d)	1,000 sq ft	92.9 m <sup>2</sup>
3.3.1.6.(1)	44 in.	1 120 mm
3.3.1.8.(1)(a)	32 in.	813 mm
(b)	24 in.	610 mm
	48 in.	1 220 mm
3.3.1.10.(1)(a)	22 in.	559 mm
(b)	22 in.	559 mm
(c)	22 in.	559 mm
3.3.1.12.(1)	42 in.	1 070 mm
(1)(b)	42 in.	1 070 mm
(1)(c)	24 in.	610 mm
(2)	4 in.	102 mm
(3)	36 in.	914 mm
3.3.1.13.(2)	42 in.	1 070 mm
3.3.2.4.(1)(c)	16 in.	406 mm
3.3.2.5.(2)	44 in.	1 120 mm
(2)(a)	30 in.	762 mm
(2)(b)	36 in.	914 mm
(3)	1 1/2 in. for each 5 ft length	25 mm/m
(5)	20 ft	6.10 m
(6)	150 ft	45.7 m
(7)	44 in.	1 120 mm
(9)(b)	4 1/2 in.	114 mm
(c)	8 in.	203 mm
(c)	7 3/4 in.	197 mm
(d)(i)	1/4 in.	6.4 mm
(ii)	17 in.	432 mm
(f)	1/4 in. in 12 in.	1:48
(g)	32 in.	813 mm
3.3.2.9.(1)	18 in.	457 mm
(2)	30 in.	762 mm
(2)	22 in.	559 mm
(3)	12 in.	305 mm
(5)	44 in.	1 120 mm
3.3.2.10.(1)(a)	30 in.	762 mm
	36 in.	914 mm
(b)	26 in.	660 mm
	24 in.	610 mm
(c)	18 in.	457 mm
	26 in.	660 mm

Reference	Imperial Value	Metric Equivalent
3.3.2.10(2)	4 ft	1.22 m
(a)	42 in.	1 070 mm
(b)	36 in.	914 mm
(3)	2 ft	610 mm
(3)	33 in.	838 mm
(4)	12 in.	305 mm
3.3.2.11.(2)	150 ft	45.7 m
(3)	75 ft	22.9 m
(5)(b)	44 in.	1 120 mm
	30 in.	762 mm
(6)(b)	9 in.	229 mm
(c)	10 in.	254 mm
(7)(a)	10 in.	254 mm
(b)	11 in.	279 mm
(8)	11 in.	279 mm
	18 in.	457 mm
3.3.2.12(1)	2,500 sq ft	232 m <sup>2</sup>
	30 ft	9.14 m
(2)	7 ft	2.13 m
3.3.2.13.(2)	1,500 sq ft	139 m <sup>2</sup>
3.3.2.14.(4)(a)	60 ft	18.3 m
(b)	60 ft	18.3 m
3.3.2.15.(3)	30 in	762 mm
(4)	30 in.	762 mm
	6 ft, 8 in.	2 030 mm
3.3.2.16	15,000 sq ft	1 390 m <sup>2</sup>
3.3.3.5.(5)	100 ft	30.5 m
3.3.3.7.(1)	96 in.	2 440 mm
(2)(b)	44 in.	1 120 mm
	7 ft	2 130 mm
(3)	44 in.	1 120 mm
3.3.4.5.	20 ft	6.1 m
3.3.4.6.(2)(d)	18 in.	457 mm
	18 in.	457 mm
3.3.4.9.(2)(c)	60 ft	18.3 m
3.3.5.2.(1)(b)	5,000 sq ft	465 m <sup>2</sup>
3.3.5.5.(1)(c)	30 ft	9.1 m
3.3.6.2.(1)(b)	5,000 sq ft	465 m <sup>2</sup>
3.3.6.3.	3 ft	0.91 m
3.3.7.5.	3 ft	0.91 m
3.3.7.7.(5)	6 ft 6 in.	1.98 m
(6)	6 in.	152 mm
	42 in.	1 070 mm
(10)	3 ft	0.91 m
(15)(a)	6 ft	1.83 m
3.3.7.11.(2)	30 ft	9.1 m
3.4.2.1.(2)(a)(ii)	20,000 sq ft	186 m <sup>2</sup>
(iii)	50 ft	15.2 m
3.4.2.2.(1)(a)	30 ft	9.1 m
(b)	30 ft	9.1 m
3.4.2.3.(1)(a)	75 ft	22.9 m
(b)	150 ft	45.7 m

Reference	Imperial Value	Metric Equivalent
3.4.2.3.(1)(c)	125 ft	38.1 m
(d)	100 ft	30.5 m
(2)	200 ft	61.0 m
(6)(c)	100 ft	30.5 m
3.4.2.5.(1)(a)	200 ft	61.0 m
(b)	12 ft	3.66 m
3.4.3.1.(2)	36 in.	914 mm
(3)	44 in.	1 120 mm
(4)	44 in.	1 120 mm
(5)	44 in.	1 120 mm
(6)(a)	48 in.	1 220 mm
(b)	24 in.	610 mm
(c)	32 in.	813 mm
3.4.3.2.(2)	22 in.	559 mm
	in inches	in millimetres
(3)	by 22	by 559
(i)	12 in.	305 mm
(ii)	12 in.	305 mm
3.4.3.4.(2)	2 in.	50.8 mm
(3)	30 in.	762 mm
(4)	3½ in.	88.9 mm
(5)(b)	42 in.	1 070 mm
3.4.3.5.(1)	7 ft	2 130 mm
3.4.3.5.(2)	6 ft 9 in.	2 060 mm
(3)	6 ft 8 in.	2 030 mm
(4)	6 ft 6 in.	1 980 mm
3.4.5.1.(2)(a)	10 ft	3.05 m
(b)	35 ft	10.7 m
(c)	6 ft	1.8 m
(4)(a)	15 ft	4.6 m
(b)	50 ft	15.2 m
3.4.6.1.(1)(e)	75 ft	22.9 m
3.4.6.1.(3)(a)	4½ in.	114 mm
	¾ in.	19 mm
(b)	6 in.	152 mm
	¾ in.	19 mm
(8)	18 in.	457 mm
	12 in.	305 mm
3.4.8.4.(1)	12 ft	3.66 m
	8 ft	2.44 m
(2)	44 in.	1 120 mm
3.4.8.5.(1)	44 in.	1 120 mm
(2)	88 in.	2 230 mm
	66 in.	1 680 mm
(4)	32 in.	813 mm
	36 in.	914 mm
(5)	1½ in.	38.1 mm
3.4.8.6.(2)	36 in.	914 mm
	42 in.	1 070 mm
(3)	4 in.	102 mm
(4)	42 in.	1 070 mm
	42 in.	1 070 mm

Reference	Imperial Value	Metric Equivalent
3.4.8.8.(2)	12 in.	305 mm
(3)	36 in.	914 mm
3.4.8.9.(1)(a)	inches	millimetres
	70	45 200
	75	48 400
(b)	7 $\frac{3}{4}$ in.	197 mm
	5 in.	127 mm
(c)	9 in.	229 mm
3.4.8.9.(3)	10 in.	254 mm
	1 in.	25.4 mm
3.4.8.10.(2)(a)	12 in.	305 mm
(3)(a)	7 in.	178 mm
(b)	9 in.	229 mm
(c)	44 in.	1 120 mm
3.4.8.11.(3)	35 in.	889 mm
	8 $\frac{1}{2}$ in.	216 mm
	15 $\frac{3}{4}$ in.	400 mm
	44 in.	1 120 mm
3.4.8.12.(1)	5 sq ft	0.46 m <sup>2</sup>
	16 sq ft	1.49 m <sup>2</sup>
	24 sq ft	2.23 m <sup>2</sup>
(2)	3 $\frac{1}{2}$ in.	88.9 mm
(8)	4 ft	1.22 m
(9)	6 ft	1.83 m
3.4.8.15.(1)	1 ft	305 mm
(2)	1 ft	305 mm
(5)	6 in.	152 mm
(9)(d)	10 ft	3.05 m
(11)	20 lb	89.0 N
(12)	20 lb	89.0 N
3.4.8.16.(2)	42 in.	1 070 mm
	22 in.	559 mm
	36 in.	914 mm
3.4.8.16.(3)	10 ft	3.05 m
	35 ft	10.7 m
	6 ft	1.83 m
(4)	8 $\frac{3}{8}$ in.	213 mm
	8 $\frac{3}{4}$ in.	222 mm
(5)	6 ft 9 in.	2.06 m
(6)	12 sq ft	1.1 m <sup>2</sup>
(7)	22 in.	559 mm
(8)	3 ft	914 mm
(9)	18 in.	457 mm
(10)	22 in.	559 mm
3.5.1.6.(1)(b)	4 ft	1.22 m
(2)	10 ft	3.05 m
	15 ft	4.57 m
3.5.2.1.(2)(a)	4,000 sq ft	372 m <sup>2</sup>
(4)(b)	4,000 sq ft	372 m <sup>2</sup>
3.5.2.2.	15 psig	103 kPa (gauge pressure)
3.5.3.2.(4)(a)	30 in.	762 mm
3.5.4.3.(1)	3 in. in 12 in.	1 in 4

Reference	Imperial Value	Metric Equivalent
3.5.4.3.(1)	22 in.	559 mm
	36 in.	914 mm
(2)	2 ft	610 mm
	22 in.	559 mm
	36 in.	914 mm
3.5.4.3.(3)	4 ft	1 220 mm
	2 ft	610 mm
	2 ft	610 mm
	1 ft	305 mm
(4)	22 in.	559 mm
	36 in.	914 mm
3.6.1.1.(3)	7 ft	2 130 mm
3.6.1.3.(1)	50 sq ft	4.65 m <sup>2</sup>
(a)	75 sq ft	6.97 m <sup>2</sup>
(b)	6 ft 6 in.	1.98 m
(c)	7 ft 6 in.	2.29 m
(2)	10 sq ft	0.93 m <sup>2</sup>
	7 ft 6 in.	2.29 m
3.6.2.2.(1)	6 ft	1.83 m
	30 in.	762 mm
3.6.3.3.(3)	$\frac{3}{4}$ in.	19.0 mm
3.6.3.4.(2)	500 cu ft/min	14.2 m <sup>3</sup> /min
(5)	1 in. for each 10 ft	1 in 120
(6)(b)	3 ft	0.91 m
3.6.4.2.(4)	20 in.	508 mm
(5)	150 sq ft	13.9 m <sup>2</sup>
3.6.4.2.(13)(b)	6,000 sq ft	557 m <sup>2</sup>
(15)(b)(i)	3,000 sq ft	279 m <sup>2</sup>
3.7.3.2.(1)(a)	25 ft	7.62 m
(b)	250 lb	113 kg
(c)	100 sq ft	9.29 m <sup>2</sup>
3.7.4.1.(1)(a)	2 $\frac{1}{2}$ in. per min	63.5 mm/min
	0.060 in.	1.52 mm
	0.050 in.	1.27 mm
(b)	0.050 in.	1.27 mm
(2)(b)	160 sq ft	14.9 m <sup>2</sup>
	4 ft	1.22 m
(c)	4 ft	1.22 m
	36 in.	914 mm
(3)(c)	2 ft	610 mm
(d)	2 ft	610 mm
3.7.5.2.(1)	8 ft	2.44 m
(2)	2 ft	610 mm
	14 ft	4.27 m
3.8.1.1.	1,000 sq ft	92.9 m <sup>2</sup>
3.8.1.2.	20 ft	6.10 m
3.8.4.2.(1)(b)	15 ft	4.57 m
3.8.4.3.(1)(a)	20 ft	6.10 m
	5 ft	1.52 m
(b)	5 ft	1.52 m
3.8.6.1.	40 ft	12.2 m
3.8.6.2.(1)(a)	20 ft	6.10 m

Reference	Imperial Value	Metric Equivalent
3.8.6.2.(1)(b)	6 ft	1.83 m
3.8.7.1.(1)	40 ft	12.2 m
	10 ft	3.05 m
(2)	10 ft	3.05 m
4.1.1.1.(1)(b)	6,000 sq ft	557 m <sup>2</sup>
(e)	50 ft	15.2 m
4.1.1.4.(2)	50 ft	15.2 m
(3)(a)	8 psf	0.383 kPa
	70 mph	113 km/h
4.1.4.2.(5)(b)(i)	500 sq ft	46.5 m <sup>2</sup>
4.1.5.1.(2)	20 psf	0.96 kN/m <sup>2</sup>
4.1.6.3.(4)	900 sq ft	83.6 m <sup>2</sup>
	square feet	square metres
(5)	200 sq ft	18.6 m <sup>2</sup>
	square feet	square metres
4.1.6.4.(1)	2½ ft by 2½ ft	762 mm x 762 mm
4.1.7.1.	20 psf	0.96 kN/m <sup>2</sup>
4.1.7.3.(1)(e)	15 ft	4.6 m
4.1.7.4.(1)(b)	feet	metres
	psf	kN/m <sup>2</sup>
4.1.8.2.(1)	400 ft	122 m
4.1.9.1.(2)	feet	metres
4.1.9.1.(13A)	100°F	37.8°C
4.1.9.3.(1)	200 ft	61.0 m
(4)(c)(i)	40 lb/sq ft	195 kg/m <sup>2</sup>
(ii)	10 ft	3.05 m
4.1.101.(1)	18 in.	457 mm
(a)	40 lb/lin ft	0.58 kN/m
	200 lbs	0.89 kN
(b)	100 lb/lin ft	1.46 kN/m
(c)	150 lb/lin ft	2.19 kN/m
(d)	250 lb/lin ft	3.65 kN/m
(e)	300 lb/lin ft	4.38 kN/m
	21 in.	533 mm
	2,500 lbs	11.1 kN
	21 in.	533 mm
(f)	125 lb	0.556 kN
4.1.10.1.(2)	20 psf	0.96 kN/m <sup>2</sup>
	18 in.	457 mm
(3)	100 lb/lin ft	1.46 kN/m
	18 in.	457 mm
4.1.10.2.(2)	20 lb/lin ft	0.29 kN/m
	10 lb/lin ft	0.146 kN/m
4.1.10.5.(1)(a)	1 sq ft	0.093 m <sup>2</sup>
(2)	50 psf	2.39 kN/m <sup>2</sup>
4.2.1.1.(1)(b)	6,000 sq ft	557 m <sup>2</sup>
(f)	50 ft	15.2 m
4.2.1.4.(1)(a)	3 in.	76.2 mm
(3)(a)	3 in.	76.2 mm
	8 in.	203 mm
(b)	8 in.	203 mm

Reference	Imperial Value	Metric Equivalent
4.2.1.5.(2)(a)	1½ in.	38.1 mm
(b)	8 in.	203 mm
4.2.1.10.(2)(a)	6,000 psi	41.4 MPa
(b)	2,500 psi	17.2 MPa
(c)	500 psi	3.4 MPa
4.2.2.2.	3,000 psi	20.7 MPa
4.2.2.4.(c)	3 in.	76.2 mm
(d)	2 in.	50.8 mm
	1½ in.	38.1 mm
(e)	1½ in.	38.1 mm
	7,000 psi	48.3 MPa
(f)	1 in.	25.4 mm
	7,000 psi	48.3 MPa
4.2.3.3.(5)	20 ft	6.1 m
4.2.4.2.(1)	6,000 sq ft	557 m <sup>2</sup>
4.2.4.2.(1)(a)	3 ft	0.91 m
	12 in. by 12 in.	305 mm x 305 mm
(a)(ii)	1 in.	25.4 mm
4.2.4.4.	3 ft	0.91 m
4.2.5.3.(2)(a)	0.01 in./hr	0.25 mm/h
(b)	1.5 in.	38.1 mm
(c)	0.75 in.	19.1 mm
(d)	0.75 in.	19.1 mm
4.2.5.11.(a)	¾ in.	9.5 mm
(b)	6 in.	152 mm
4.2.5.13.(a)	5,000 psi	34.5 MPa
4.2.5.15.(1)(b)	0.18 in.	4.57 mm
(c)	1½ in.	38.1 mm
4.2.5.18.	1 ft	0.305 m
4.2.5.25.(1)(b)	3 in.	76.2 mm
4.2.6.4.(b)	1½ in.	38.1 mm
4.2.6.7.	0.18 in.	4.57 mm
4.3.1.1.(1)(b)	6,000 sq ft	557 m <sup>2</sup>
(e)	50 ft	15.2 m
4.4.1.1.(1)(b)	6,000 sq ft	557 m <sup>2</sup>
(e)	50 ft	15.2 m
4.4.1.8.	½ in.	12.7 mm
4.4.2.1.(2)(a)	2 in.	50.8 mm
4.4.3.6.(1)(d)	12 in.	305 mm
(e)	16 in.	406 mm
(f)	68°F	20°C
4.4.3.6.(8)	2 in.	50.8 mm
4.4.3.7.(1)(a)	5,000 sq ft	465 m <sup>2</sup>
(d)	68°F	20°C
4.4.3.8.(1)	2 in.	50.8 mm
	5,000 sq ft	465 m <sup>2</sup>
4.4.3.10.(4)(b)	10 ft	3.05 m
4.4.3.15.(1)(a)	18,000 psi	124 MPa
(b)	24,000 psi	166 MPa
	60,000 psi	414 MPa
(c)	20,000 psi	138 MPa
(2)	24,000 psi	165 MPa



Reference	Imperial Value	Metric Equivalent
4.4.3.16.	29,000,000 psi	200 GPa
4.4.3.30.(2)	48 in.	1 220 mm
(5)	24 in.	610 mm
4.4.3.32.(2)	0.1483 in.	3.77 mm
(3)	6 in.	152 mm
4.4.3.37.(3)	¼ in.	6.35 mm
4.4.3.44.(7)	6 in.	152 mm
4.4.3.45.(1)(d)	7,500 psi	51.7 MPa
4.4.3.46.(3)	7,500 psi	51.7 MPa
4.4.3.47.(1)(d)	2 in.	50.8 mm
4.4.3.38.(1)(b)	¾ in.	19.1 mm
(d)	16 in.	406 mm
(e)	8 in.	203 mm
(f)	1 in.	25.4 mm
4.4.3.49.(2)	0.1483 in.	3.77 mm
	4 in.	102 mm
	2 in.	50.8 mm
(2)(b)	16 in.	406 mm
(c)	24 in.	610 mm
	16 in.	406 mm
	12 in.	305 mm
(4)	3 in.	76.2 mm
	25 ft	7.6 m
(6)	4 ft	1.22 m
4.4.3.50.(3)	2 in. by 3 in.	50.8 mm x 76.2 mm
	8 ft	2.44 m
	3 in. by 3 in.	76.2 mm x 76.2 mm
(4)	4 ft	1.22 m
(6)	8 ft	2.44 m
	4 ft	1.22 m
(7)	1 ½ in.	38.1 mm
4.4.3.51.(1)	¼ in.	6.35 mm
	⅜ in.	9.5 mm
	½ in.	12.7 mm
4.4.3.52.(1)(a)	3 in.	76.2 mm
(b)	2 in.	50.8 mm
	1 ½ in.	38.1 mm
(c)	1 ½ in.	38.1 mm
(d)	1 ½ in.	38.1 mm
(e)	¾ in.	19.1 mm
(f)	¾ in.	19.1 mm
(2)	⅝ in.	15.9 mm
4.4.4.3.(3)	½ in.	12.7 mm
4.4.4.10.(1)	4 in.	102 mm
	3 in.	76.2 mm
4.4.4.11.(1)	12 in.	305 mm
(a)	36 ft	11.0 m
(b)	48 ft	14.6 m
(2)	36 ft	11.0 m
	48 ft	14.6 m
	4 in.	102 mm
	36 ft	11.0 m

Reference	Imperial Value	Metric Equivalent
4.4.4.11.(3)	36 ft	11.0 m
	50 psf	2.39 kN/m <sup>2</sup>
	8 in.	203 mm
	12 in.	305 mm
4.4.4.11.(4)	6 in.	152 mm
	9 ft	2.74 m
	15 ft	4.57 m
(b)	8 in.	203 mm
(7)	8 in.	203 mm
4.4.4.12.(1)	7 in.	178 mm
(2)	6 in.	152 mm
	10 ft	3.05 m
4.4.4.13.(1)	7 in.	178 mm
	36 ft	11.0 m
(2)	36 ft	11.0 m
	7 in.	178 mm
	4 in.	102 mm
	36 ft	11.0 m
4.4.4.14.(1)(a)	8 in.	203 mm
4.4.4.15.(1)	36 ft	11.0 m
(2)	4 in.	102 mm
(3)	2 in.	50.8 mm
	3 in.	76.2 mm
(4)	3 in.	76.2 mm
	4 in.	102 mm
4.4.4.16.(1)(a)	10 in.	254 mm
	12 ft	3.66 m
(b)	12 in.	305 mm
	12 ft	3.66 m
	24 ft	7.32 m
4.4.4.16.(1)(c)	14 in.	356 mm
	24 ft	7.32 m
(2)	10 in.	254 mm
4.4.4.18.(1)	20 ft	6.10 m
	8 in.	203 mm
(2)	8 in.	203 mm
	4 in.	102 mm
(3)	12 ft	3.66 m
	5,000 sq ft	465 m <sup>2</sup>
	8 in.	203 mm
	12 in.	305 mm
4.4.4.20.(1)	8 in.	203 mm
(2)	2 ft.	610 mm
4.4.4.22.(1)	20 in.	508 mm
4.4.5.2.(1)	1¼ in.	31.8 mm
(a)	1⅝ in.	41.3 mm
	3⅝ in.	92.1 mm
(b)	4½ in.	114 mm
	3⅝ in.	92.1 mm
(c)	2 in.	50.8 mm
	5 in.	127 mm
	8 in.	203 mm

Reference	Imperial Value	Metric Equivalent
4.4.5.5.(1)	30 in.	762 mm
(a)	2½ in.	63.5 mm
	2,000 psi	13.8 MPa
(b)	4 in.	102 mm
4.4.5.6.	4 in.	102 mm
4.4.5.7.	2,000 psi	13.8 MPa
	8 in.	203 mm
4.4.5.8.	3,000 psi	20.7 MPa
	12 in.	305 mm
4.4.5.9.(2)	½ in.	12.7 mm
4.4.5.10.(1)(a)	1 ft 4 in.	406 mm
	6 ft 8 in.	2.03 m
(2)(a)	1½ in.	38.1 mm
	¼ in.	6.35 mm
(b)	2 in.	50.8 mm
4.4.5.11.(1)	4 in.	102 mm
4.4.5.13.(1)(a)(ii)	4 in.	102 mm
(b)	4 in.	102 mm
(d)(i)	24 in.	610 mm
(ii)	36 in.	914 mm
4.4.5.14.(1)(a)	1 in.	25.4 mm
(b)	18 in.	457 mm
	36 in.	914 mm
(2)	⅜ in.	4.76 mm
	2 in.	50.8 mm
4.4.5.15.	12 in.	305 mm
	36 in.	914 mm
4.4.5.16.(1)(a)	6 in.	152 mm
4.4.5.17.(1)	3⅝ in.	92.1 mm
(2)	8 in.	203 mm
(3)	3⅝ in.	92.1 mm
4.4.5.17.(5)	1 ft	305 mm
(6)	0.187 sq in.	121 mm <sup>2</sup>
	⅜ in x 1 in.	4.76 mm x 25.4 mm
	1 in.	25.4 mm
(7)	4½ sq ft	0.418 m <sup>2</sup>
	2 ft	610 mm
	30 in.	762 mm
(8)	3⅝ in.	92.1 mm
(9)(a)	4 in.	102 mm
(d)	4 in.	102 mm
4.4.5.18.(1)(b)	8 in.	203 mm
	9 ft	2.74 m
(c)	1 ft 4 in	406 mm
(2)(a)	0.375 sq in.	242 mm <sup>2</sup>
	¼ in. by 1½ in.	6.35 mm x 38.1 mm
(b)	18 in.	457 mm
	2 in.	50.8 mm
(c)	18 in.	457 mm
4.4.5.19.(1)(b)	24 in.	610 mm
	8 in.	203 mm
(c)	8 in.	203 mm

Reference	Imperial Value	Metric Equivalent
4.4.5.19.(2)	3 in.	76.2 mm
	0.1483 in.	3.77 mm
(3)	3 in.	76.2 mm
4.4.5.21.(1)(b)	6 in.	152 mm
(d)	8 in.	203 mm
4.4.5.22.(1)	1 in.	25.4 mm
(a)	18 in.	457 mm
	0.1483 in.	3.77 mm
	1 in.	25.4 mm
	6 in.	152 mm
4.4.5.23.(2)	8 in.	203 mm
	32 in.	813 mm
4.4.5.24.(3)	12 in.	305 mm
	3 ft	914 mm
4.4.5.25.	$\frac{3}{8}$ in.	9.53 mm
	24 in.	610 mm
4.4.6.2.(1)	3 in.	76.2 mm
(2)	4 in.	102 mm
(3)	36 ft	11.0 m
	12 ft	3.66 m
(4)	36 ft	11.0 m
4.4.6.4.	3 in.	76.2 mm
	$\frac{7}{8}$ in.	22.2 mm
4.4.6.5.(1)	$1\frac{1}{4}$ in.	31.8 mm
(2)	25 sq ft	2.32 m <sup>2</sup>
	6 ft	1.83 m
(5)(a)	2 ft	610 mm
(b)	30 in.	762 mm
(c)	2 sq ft	0.186 m <sup>2</sup>
4.4.6.5.(6)	$\frac{1}{8}$ in. by $1\frac{1}{4}$ in.	3.18 mm x 31.8 mm
	$\frac{1}{4}$ in. by $2\frac{1}{2}$ in.	6.35 mm x 63.5 mm
	$\frac{1}{4}$ in. by 2 in.	6.35 mm x 50.8 mm
	1 in.	25.4 mm
4.4.6.6.(1)(a)	$\frac{5}{8}$ in.	15.9 mm
	$1\frac{5}{8}$ in.	41.3 mm
(i)	144 sq in.	0.093 m <sup>2</sup>
(ii)	2 in.	50.8 mm
(d)	36 ft	11.0 m
	24 ft	7.32 m
(g)(i)	$2\frac{1}{2}$ in.	63.5 mm
	8 in.	203 mm
	16 in.	406 mm
(ii)	$\frac{3}{8}$ in.	9.53 mm
4.4.6.7.(1)(a)	36 ft	11.0 m
(b)	1 in.	25.4 mm
(i)	144 sq in.	0.093 m <sup>2</sup>
(ii)	16 in.	406 mm
(iii)	36 sq in.	0.023 m <sup>2</sup>
(2)	$\frac{1}{4}$ in.	6.35 mm
	$2\frac{1}{4}$ sq in.	14.5 cm <sup>2</sup>
4.4.6.8.(1)	18 ft	5.49 m
	6 in.	152 mm

Reference	Imperial Value	Metric Equivalent
4.4.6.8.(2)	¼ in.	6.35 mm
(3)	8 sq ft	0.743 m <sup>2</sup>
	4 ft	1.22 m
4.4.6.8.(7)	¾ in.	19.0 mm
	12 in.	305 mm
(9)	4 ft	1 220 mm
(9)(a)	2 in.	50.8 mm
(c)	2 ft	610 mm
	3 ft	914 mm
	1 ft	305 mm
(d)	⅛ in.	3.18 mm
(10)	⅛ in.	3.18 mm
(14)(a)	4 sq ft	0.372 m <sup>2</sup>
(b)	30 in.	762 mm
(c)	¾ in.	19.0 mm
4.4.6.10.(1)(b)	5,000 psi	34.5 MPa
(c)	850 psi	5.86 MPa
(f)	3⅝ in.	92.1 mm
(3)	18 ft	5.49 m
(d)	18 in.	457 mm
4.5.1.1.(1)(b)	6,000 sq ft	557 m <sup>2</sup>
(e)	50 ft	15.2 m
4.6.1.1.(1)(b)	6,000 sq ft	557 m <sup>2</sup>
(e)	50 ft	15.2 m
4.7.1.1.(1)(b)	6,000 sq ft	557 m <sup>2</sup>
(e)	50 ft	15.2 m
4.8.1.1.(1)(b)	6,000 sq ft	557 m <sup>2</sup>
5.2.1.4.(1)	6,000 sq ft	557 m <sup>2</sup>
5.2.1.6.(1)	6,000 sq ft	557 m <sup>2</sup>
5.3.1.1.	2 ft 8 in.	813 mm
5.3.2.1.(1)	2 ft 6 in.	762 mm
	1 ft 8 in.	508 mm
(3)	⅝ in.	15.9 mm
5.3.3.1.	7 ft by 5 ft	2.13 m by 1.52 m
5.3.4.1.	36 in.	914 mm
5.3.5.1.(1)(b)	3 ft	914 mm
	3½ in.	88.9 mm
(d)	30 in.	762 mm
	42 in.	1 070 mm
	1 ft	305 mm
(e)(i)	1 ft	305 mm
	5 ft square	1.52 m square
	3 ft	914 mm
(ii)	1 ft	305 mm
	2 ft	610 mm
	5 ft	1.52 m
(iii)	4 ft	1.22 m
	30 ft	9.14 m
(iv)	6 ft	1.83 m
	4 ft	1.22 m
(g)	10 foot candles	108 lx

Reference	Imperial Value	Metric Equivalent
5.3.6.1.(1)(c)	44 in.	1 120 mm
(d)	30 in.	762 mm
	42 in.	1 070 mm
(e)	1 ft 6 in.	457 mm
5.3.10.1.(1)(a)	4 ft 6 in.	1 370 mm
	5 ft	1 520 mm
(b)	5 ft 6 in.	1 680 mm
	4 ft 6 in.	1 370 mm
(c)	2 ft 8 in.	813 mm
(d)(i)	1 ft 6 in.	457 mm
(iv)	2 ft	610 mm
	2 in. to 1 1/4 in.	50.8 mm to 31.8 mm
	1 3/4 in.	44.5 mm
	2 ft 1 in.	635 mm
	2 in.	50.8 mm
	2 ft	610 mm
	1 in. to 1 1/4 in.	25.4 mm to 31.8 mm
	1 3/4 in.	44.5 mm
	11 in.	279 mm
5.3.10.1.(1)(d)(v)	5 ft	1 520 mm
6.1.1.1.(3)(b)	6,000 sq ft	557 m <sup>2</sup>
6.2.1.1.(1)(b)	400,000 Btu/hr	117 kW
(c)	4,000 cfm	113 m <sup>3</sup> /min
(2)	400,000 Btu/hr	117 kW
	4,000 cfm	113 m <sup>3</sup> /min
6.2.4.1.(2)(c)	250°F	121°C
(3)(b)	1,400°F	760°C
6.2.4.4.(1)(a)	10 in.	254 mm
(c)	250°F	121°C
6.2.4.6.(1)	250°F	121°C
(3)	250°F	121°C
6.2.4.9.(2)(b)	50°F	27.8°C
6.2.4.10.(1)(a)	0.058 in.	1.47 mm
	1/16 in.	1.59 mm
(2)	50°F	27.8°C
6.2.4.11.(4)	50 cfm	1.42 m <sup>3</sup> /min
6.2.4.13.(2)	7 ft	2.13 m
	1/2 in.	12.7 mm
(4)	1/2 in.	12.7 mm
6.2.4.14.(3)	40 ft	12.2 m
	100 ft	30.5 m
6.2.4.14.(4)	2,000 cu ft	56.6 m <sup>3</sup>
6.2.5.1.(1)(a)	10 ft	3.05 m
6.2.5.1.(1)(b)	2 in.	50.8 mm
	36 in.	914 mm
6.2.5.4.(1)(c)	4 in.	102 mm
(2)(a)	4 in.	102 mm
	0.022 in.	0.56 mm
(3)(a)	18 in.	457 mm
(5)(a)	4 in.	102 mm
(6)	0.022 in.	0.56 mm

Reference	Imperial Value	Metric Equivalent
6.2.5.4.(6)	¼ in.	6.35 mm
	18 in.	457 mm
6.2.5.5.(2)	6 in.	152 mm
	10 in.	254 mm
	12 in.	305 mm
(3)	0.13 in. of water	32.3 Pa
6.2.5.7.(1)	250°F	121°C
(2)(a)	0.13 in. of water	32.3 Pa
(b)	250°F	121°C
(3)(b)(i)	250°F	121°C
(4)	250°F	121°C
6.2.5.9.(2)	18 in.	457 mm
6.2.5.12.(2)	120°F	48.9°C
(5)	120°F	48.9°C
6.2.5.15.	1 in.	25.4 mm
6.2.6.4.(2)	250°F	121°C
(6)	160°F	71.1°C
6.2.6.6.(1)	250°F	121°C
	2 in.	50.8 mm
6.2.6.6.(2)	1 in.	25.4 mm
6.2.8.1.(2)	400,000 Btu/hr	117 kW
(8)	10 ft	3.05 m
	50 ft	15.2 m
(9)(a)	3 ft	914 mm
(b)	2 ft	610 mm
	10 ft	3.05 m
6.2.8.2.(3)	2 ft. by 3 ft.	610 mm x 914 mm
6.2.8.3.(2)(d)	0.012 in.	0.305 mm
	1,000°F	538°C
(3)(b)	2 ft	610 mm
(4)(a)	3 in.	76.2 mm
(b)	3½ in.	88.9 mm
(5)(a)	12 in.	305 mm
(b)	6 in.	152 mm
(d)	1 in.	25.4 mm
(6)	2 in.	50.8 mm
	½ in.	12.7 mm
(7)	6 in.	152 mm
(8)	1 in.	25.4 mm
(9)	½ in.	12.7 mm
(10)	⅛ in.	3.18 mm
6.2.8.6.(4)	0.127 in.	3.23 mm
(5)(b)	600°F	316°C
(7)	1,000°F	538°C
	4½ in.	114 mm
	25 ft	7.62 m
	1,000°F	538°C
(8)(a)	3 ft	914 mm
6.2.8.6.(8)(b)	6 ft	1.83 m
(c)	4 in	102 mm
(9)	3 ft	914 mm
(10)	12 in.	305 mm

Reference	Imperial Value	Metric Equivalent
6.2.8.6.(10)	9 in.	229 mm
	6 in.	152 mm
6.2.8.9.(1)	2,000°F	1 090°C
(2)	600°F	316°C
(5)(d)	¼ in. per ft	1:48
(6)	18 in.	457 mm
(7)	18 in.	457 mm
6.5.2.2.(2)	50°F	27.8°C
6.6.2.4.(1)(a)	3 ft	914 mm
(2)	⅛ in.	3.18 mm
(3)(a)	3 ft	914 mm
	2 ft	610 mm
	10 ft	3.05 m
6.7.3.1.(4)	275 ft	83.8 m
6.7.3.2.(1)	5 ft	1.52 m
(2)	10 ft	3.05 m
(6)	90 psig	Gauge pressure of 620 kPa
(8)	75 ft	22.9 m
(12)	500 sq ft	46.5 m <sup>2</sup>
6.7.3.3.(3)	⅜ in.	4.76 mm
6.7.3.4.(1)(c)	50 psig	Gauge pressure of 345 kPa
(2)	70 US gpm	265 L/min
	35 US gpm	4.42 L/s
		132 L/min
		2.21 L/s
6.7.3.4.(11)	75 ft	22.9 m
	275 ft	83.8 m
(b)	70 US gpm	265 L/min
		4.42 L/s
	50 psig	345 kPa (Gauge Pressure)
	35 US gpm	132 L/min
		2.21 L/s
(c)	500 US gpm	1 890 L/min
		31.5 L/s
	250 US gpm	946 L/min
		15.8 L/s
(12)	275 ft	83.8 m
(b)	500 US gpm	1 890 L/min
		31.5 L/s
	50 psig	345 kPa (Gauge Pressure)
	250 US gpm	946 L/min
		15.8 L/s
(15)	275 ft	83.8 m
	500 US gpm	1 890 L/min
		31.5 L/s
	50 psig	345 kPa (Gauge Pressure)
	250 US gpm	946 L/min
		15.8 L/s
(17)	275 ft	83.8 m
6.7.3.5.(2)(a)	1 ft	305 mm



Reference	Imperial Value	Metric Equivalent
6.7.3.5.(2)(a)	3 ft	914 mm
(b)	150 ft	45.7 m
6.7.3.5.(6)	1 in.	25.4 mm
6.7.3.6.(1)(a)	175 psig	1 210 kPa (Gauge Pressure)
(3)(a)	300 psig	2 070 kPa (Gauge Pressure)
(b)	300 psig	2 070 kPa (Gauge Pressure)
(4)	175 psig	1 210 kPa (Gauge Pressure)
6.7.3.7.(1)	175 psig	1 210 kPa (Gauge Pressure)
6.7.3.9.(2)	50 psig	345 kPa (Gauge Pressure)
	200 psig	1 380 kPa (Gauge Pressure)
6.7.4.1.(2)(a)	130 sq ft	12.1 m <sup>2</sup>
(c)	25 US gpm	94.6 L/min
		1.58 L/s
6.8.2.1.(2)	85 db	85 db
	10 db	10 db
	0.0002 Microbar	0.1 Pa
6.8.3.1.	91 db	91 db
	10 db	10 db
	0.0002 Microbar	0.1 Pa
6.8.4.6.(1)(a)	94 db	94 db
	4 ft	1.22 m
	1 watt	1 W
(b)	10 watts	10 W
(c)	10 watts	10 W
(d)	60 Hertz	60 Hz
	10 kilohertz	10 kHz
(2)(a)	121 db	121 db
	4 ft	1.22 m
	15 watts	15 W
(b)	15 watts	15 W
(d)	275 Hertz	275 Hz
	14 kilohertz	14 kHz
6.8.5.2.	3 ft 6 in.	1 070 mm
	4 ft 6 in.	1 370 mm
6.8.5.3.(1)	5 ft	1.52 m
(2)	6 in.	152 mm
6.8.6.1.(1)	5 ft	1.52 m
6.8.8.1.	1 in.	25.4 mm
9.1.1.1.	6,000 sq ft	557 m <sup>2</sup>
9.3.2.5.	2,000 psi	13.8 MPa
9.3.2.6.	3,000 psi	20.7 MPa
9.3.2.7.	4 in.	102 mm
	2 in.	50.8 mm
9.3.2.10.	40°F	4.4°C
	50°F	10.0°C
	80°F	26.7°C
	50°F	10.0°C
9.3.3.5.	1 in.	25.4 mm
9.4.2.1.	2½ ft x 2½ ft	762 mm x 762 mm
9.4.3.1.	20 psf	0.96 kN/m <sup>2</sup>
9.4.3.2.	14 ft	4.27 m
	20 psf	0.96 kN/m <sup>2</sup>

Reference	Imperial Value	Metric Equivalent
9.4.4.2.	14 ft	4.27 m
	$\frac{1}{2}$ in.	12.7 mm
9.4.7.1.	3 ft	0.91 m
	12 in. by 12 in.	305 mm x 305 mm
	1 in.	25.4 mm
9.5.2.2.	7 ft	2.13 m
9.5.2.3.	6 ft 6 in.	1.98 m
9.5.3.1.(1)(a)	145 sq ft	13.5 m <sup>2</sup>
(b)	9 ft 10 in.	3.0 m
9.5.3.1.(2)	120 sq ft	11.1 m <sup>2</sup>
9.5.4.1.(1)	35 sq ft	3.25 m <sup>2</sup>
(2)	75 sq ft	6.97 m <sup>2</sup>
9.5.4.2.	7 ft 6 in.	2.29 m
9.5.4.3.	5 ft 6 in.	1.68 m
9.5.5.1.	45 sq ft	4.18 m <sup>2</sup>
	40 sq ft	3.72 m <sup>2</sup>
9.5.6.1.(1)(a)	105 sq ft	9.76 m <sup>2</sup>
(b)	95 sq ft	8.83 m <sup>2</sup>
(2)	8 ft 10 in.	2.69 m
9.5.6.2.(1)(a)	75 sq ft	6.97 m <sup>2</sup>
(b)	65 sq ft	6.04 m <sup>2</sup>
(2)	6 ft 6 in.	1.98 m
9.5.6.3.	45 sq ft	4.18 m <sup>2</sup>
	6 ft 6 in.	1.98 m
9.5.7.1.(2)	5 ft	1.52 m
(a)	1 ft 9 in.	533 mm
(b)	1 ft 6 in.	457 mm
(4)	1 ft 3 in.	381 mm
(a)	1 ft 9 in.	533 mm
(b)	1 ft 6 in.	457 mm
9.5.8.1.	2 ft 10 in.	864 mm
	14 ft	4.27 m
	2 ft 4 in.	711 mm
9.6.3.2.	2 ft 8 in.	813 mm
	6 ft 8 in.	2 030 mm
9.6.5.2.	18 in.	457 mm
9.6.5.3.	5 sq ft	0.465 m <sup>2</sup>
	36 in.	914 mm
9.7.2.4.	6 in.	152 mm
9.7.3.1.(2)	14 ft	4.27 m
9.7.6.1.	18 in.	457 mm
	12 in.	305 mm
9.7.6.2.	42 in.	1 070 mm
9.8.3.1.	9 in.	229 mm
	8 in.	203 mm
9.8.3.2.	8 in.	203 mm
	$8\frac{1}{4}$ in.	210 mm
	$9\frac{1}{4}$ in.	235 mm
9.8.3.3.	$7\frac{3}{4}$ in.	197 mm
	5 in.	127 mm
	9 in.	229 mm
	10 in.	254 mm

Reference	Imperial Value	Metric Equivalent
9.8.3.3.	70	45 200
	75	48 400
	inches	millimetres
9.8.3.4.	10 in.	254 mm
	1 in.	25.4 mm
9.8.3.5.	36 in.	914 mm
	44 in.	1 120 mm
9.8.3.6.	2 ft 10 in.	864 mm
9.8.3.7.	6 ft 4 in.	1.93 m
	6 ft 9 in.	2.06 m
9.8.4.1.	36 in.	914 mm
	44 in.	1 120 mm
9.8.4.5.	12 ft	3.66 m
9.8.4.6.	6 ft 4 in.	1.93 m
	6 ft 9 in.	2.06
9.8.5.2.	9 in.	229 mm
9.8.5.3.	9 in.	229 mm
	7 in.	178 mm
	44 in.	1 120 mm
9.8.6.2.	12 in.	305 mm
9.8.6.3.	36 in.	914 mm
9.8.7.1.	44 in.	1 120 mm
9.8.7.3.	44 in.	1 120 mm
9.8.7.4.	32 in.	813 mm
	36 in.	914 mm
9.8.7.5.	1½ in.	38.1 mm
9.8.7.7.	3½ in.	88.9 mm
9.8.8.1.	24 in.	610 mm
9.8.8.3.	42 in.	1 070 mm
	4 ft	1 220 mm
	32 in.	813 mm
9.8.8.4.	36 in.	914 mm
	42 in.	1 070 mm
9.8.8.5.	32 in.	813 mm
9.8.8.6.	6 in.	152 mm
	42 in.	1 070 mm
	2 ft	610 mm
9.8.8.7.	4 in.	102 mm
9.8.8.8.	4 in.	102 mm
	36 in.	914 mm
9.8.9.1.	6 in. by 6 in.	152 mm x 152 mm
	8 in.	203 mm
9.8.9.2.(1)(a)	3½ in.	88.9 mm
	9¼ in.	235 mm
(c)	1 in.	25.4 mm
(d)	1½ in.	38.1 mm
(e)	3 ft.	914 mm
	2 ft	610 mm
9.8.9.3.	1 in.	25.4 mm
	2 ft 6 in.	762 mm
	1½ in.	38.1 mm
9.9.2.4.(2)	42 in.	1 070 mm

Reference	Imperial Value	Metric Equivalent
9.9.2.4.(2)	22 in.	559 mm
	36 in.	914 mm
9.9.3.3.(2)	44 in.	1 120 mm
	36 in.	914 mm
9.9.3.4.	44 in.	1 120 mm
9.9.3.6.(1)	in inches	millimetres
	22	559
(2)	12 in.	305 mm
(3)	12 in.	305 mm
9.9.3.8.	7 ft	2.13 m
9.9.4.6.(1)(c)	800 sq ft	74.3 m <sup>2</sup>
(d)	75 ft	22.9 m
9.9.5.3.	8 ft	2.44 m
9.9.5.4.	15 psi gauge	103 kPa (Gauge Pressure)
9.9.6.2.	2 in.	50.8 mm
	22 in.	559 mm
9.9.6.3.	30 in.	762 mm
9.9.6.4.	6 ft 6 in.	1 980 mm
9.9.6.5.(1)	6 ft 8 in.	2 030 mm
(2)	32 in.	813 mm
	24 in.	610 mm
	48 in.	1 220 mm
9.9.6.7.	1 ft	305 mm
	12 in.	305 mm
9.9.6.8.	7¾ in.	190 mm
9.9.6.10(1)(b)	10 ft	3.05 m
9.9.6.13.	20 lb	89.0 N
9.9.7.9.(1)	15 ft	4.6 m
	50 ft	15.2 m
9.9.8.4.(1)	20 ft	6.1 m
9.9.8.5.	30 ft	9.1 m
9.9.8.6.(1)	30 ft	9.1 m
9.9.8.7.(1)	75 ft	22.9 m
9.9.8.9.	60 ft	18.3 m
9.9.9.1.(1)	75 ft	22.9 m
(2)	1,500 sq ft	139 m <sup>2</sup>
	2,000 sq ft.	186 m <sup>2</sup>
9.9.9.2.	125 ft	38.1 m
	100 ft	30.5 m
9.9.9.3.	125 ft	38.1 m
	100 ft	30.5 m
	150 ft	45.7
9.9.10.5.(2)	¾ in.	19.0 mm
	6 in.	152 mm
	4½ in.	114 mm
9.9.11.4.(2)	1 foot candle	10.8 lx
(3)	1 watt per 10 sq ft	1.08 W/m <sup>2</sup>
9.10.3.6.	10 lb per sq ft	48.8 kg/m <sup>2</sup>
	100,000 Btu/sq ft	1 140 MJ/m <sup>2</sup>
9.10.3.8.	10 lb per sq ft	48.8 kg/m <sup>2</sup>
	100,000 Btu/sq ft	1 140 MJ/m <sup>2</sup>
9.10.4.4.	4 ft	1.22 m

Reference	Imperial Value	Metric Equivalent
9.10.5.3.	7 ft	2.1 m
	1 sq ft	929 cm <sup>2</sup>
	20 sq in.	129 cm <sup>2</sup>
9.10.7.2.	6 ft 8 in.	2.03 m
	10 ft	3.05 m
9.10.7.7.	10 ft	3.05 m
	3 ft	0.91 m
9.10.7.8.	10 ft	3.05 m
9.10.8.4.	6 ft	1.83 m
9.10.8.6.	42 in.	1 070 mm
9.10.9.6.	6 ft	1.83 m
9.10.9.13.	4 in.	102 mm
9.10.10.4.	4,000 sq ft	372 m <sup>2</sup>
9.10.11.4.	6 in.	152 mm
	36 in.	914 mm
9.10.12.6.	0.016 in.	0.406 mm
	0.019 in.	0.483 mm
9.10.12.7.(1)(a)	30 in.	762 mm
9.10.12.12.	1 sq ft	929 cm <sup>2</sup>
9.10.13.1.	3 ft	0.91 m
9.10.13.3.	15 ft	4.57 m
9.10.14.1.(3)	1¾ in.	44.5 mm
	¼ in.	6.35 mm
	⅛ in.	3.18 mm
(4)	1¾ in.	44.5 mm
	2 in.	50.8 mm
9.10.14.3.(1)	¼ in.	6.35 mm
(2)	9 sq ft	0.84 m <sup>2</sup>
	4 ft 6 in.	1.37 m
	80 sq ft	7.4 m <sup>2</sup>
9.10.14.5.(1)	120 sq ft	11.1 m <sup>2</sup>
	12 ft	3.66 m
9.10.14.10.	0.058 in	1.47 mm
	⅙ in.	1.59 mm
	50°F	27.8°C
9.10.14.11.	1,200°F	649°C
	20 sq in.	129 cm <sup>2</sup>
	4 ft	1.22 m
9.10.14.12.	1,200°F	649°C
	22 in.	559 m
9.10.14.15.	1¾ in.	44.5 mm
9.10.15.5.	30 ft	9.1 m
9.10.15.6.	10 ft	3.05 m
9.10.15.7.	10 ft	3.05 m
9.10.15.8.(1)(c)	4 ft	1.22 m
(d)	2 ft	0.61 m
(e)	4 ft	1.22 mm
9.10.15.9.(1)	2 ft	0.61 m
9.10.15.10.	10 ft	3.05 m
9.10.15.13.(1)	6,000 sq ft	557 m <sup>2</sup>
9.10.16.2.	10 ft	3.05 m
9.10.16.4.	3,000 sq ft	279 m <sup>2</sup>

Reference	Imperial Value	Metric Equivalent
9.10.16.4.	150 ft.	45.7 m
9.10.16.6.	1/2 in.	12.7 m
9.10.18.13.(2)(b)	6 in.	152 mm
	12 in.	305 mm
9.10.19.1.	42 in.	1 070 mm
	22 in.	559 mm
	36 in.	914 mm
9.10.19.3.	75 ft	22.9 m
(a)	42 in.	1 070 mm
	22 in.	559 mm
	36 in.	914 mm
9.12.1.1.(2)	1 ft	305 mm
	2 ft	610 mm
9.12.2.5.	500 sq ft	46.5 m <sup>2</sup>
9.12.3.3.	2 ft	610 mm
	10 in.	254 mm
9.12.14.1.	1,500 psi	10.3 MPa
9.13.3.1.(1)	1/4 in.	6.35 mm
9.13.4.1.	3 in.	76 mm
9.13.5.1.(1)	1/4 in.	6.35 mm
9.13.5.3.(2)	2 mil	0.051 mm
	4 in.	102 mm
9.13.6.2.	6 mil	0.152 mm
	45 lb	2.20 kg/m <sup>2</sup>
	4 in.	102 mm
9.13.6.3.	2 mil	0.051 mm
9.14.2.1.	5 in.	127 mm
	6 in.	152 mm
9.14.4.2.	1/4 in. to 3/8 in.	6.35 mm to 9.53 mm
	6 mil	0.152 mm
9.14.4.4.	6 in.	152 mm
9.14.5.3.	15 ft	4.57 m
9.15.2.3.	2,000 psi	13.8 MPa
9.15.2.4.	1,000 psi	6.9 MPa
	1,800 psi	12.4 MPa
9.15.3.3.(2)	16 ft	4.88 m
	50 psf	2.39 kN/m <sup>2</sup>
(3)	50 psf	2.39 kN/m <sup>2</sup>
	10 ft	3.05 m
	16 ft	4.88 m
9.15.3.3.(4)	10 ft.	3.05 m
(5)(a)	2 1/2 in.	63.5 mm
(b)	5 in.	127 mm
(6)	4 in.	102 mm
9.15.3.5.	4 in.	102 mm
9.15.4.1.(2)	8 ft	2.44 m
9.15.4.2.	6 in.	152 mm
9.15.4.3.	14 in.	356 mm
	3 5/8 in.	92.1 mm
9.15.4.4.	3 3/8 in.	92.1 mm
	8 in.	203 mm
	36 in.	914 mm

Reference	Imperial Value	Metric Equivalent
9.15.4.6.	80 ft	24.4 m
	50 ft	15.2 m
9.15.5.1.	2 in.	50.8 mm
	1/2 in.	12.7 mm
9.15.5.2.	8 in.	203 mm
	2 in.	50.8 mm
9.15.5.3.(1)	6 in.	152 mm
(2)	4 in.	102 mm
	12 in.	305 mm
(3)	8 in.	203 mm
9.16.2.1.(1)	5 in.	127 mm
9.16.2.2.(2)	5 in.	127 mm
9.16.6.1.	3 in.	76 mm
	3/4 in.	19.1 mm
9.16.6.2.	6 in.	152 mm
9.16.7.1.	3/8 in.	9.52 mm
	24 in.	610 mm
	6 in. by 6 in.	152 mm x 152 mm
9.16.8.2.	2 in.	50.8 mm
9.17.1.1.	16 ft	4.88 m
	50 psf	2.39 kN/m <sup>2</sup>
9.17.3.1.(1)	27/8 in.	73.0 mm
	3/16 in.	4.76 mm
9.17.3.1.(2)	220 sq ft	20.4 m <sup>2</sup>
	3 1/2 in.	88.9 mm
	0.188 in.	4.78 mm
	6 in. by 6 in.	152 mm x 152 mm
	3/8 in.	9.52 mm
9.17.3.3.	4 in.	102 mm
	1/4 in.	6.35 mm
9.17.4.2.(2)	3/8 in.	9.52 mm
	18 in.	457 mm
	3 in.	76.2 mm
	12 in.	305 mm
9.17.4.3.	2 mil	0.051 mm
	45 lb	2.20 kg/m <sup>2</sup>
9.17.4.4.(1)(b)	6 in.	152 mm
	2 in.	50.8 mm
9.17.5.2.	12 in. by 12 in.	305 mm by 305 mm
	10 in. by 16 in.	254 mm by 406 mm
9.17.6.2.	8 in. by 8 in.	203 mm by 203 mm
	9 in.	229 mm
9.18.1.1.	6 ft	1.83 m
9.18.2.1.	1 ft 8 in.	508 mm
	2 ft 4 in.	711 mm
	1 ft 10 in.	559 mm
	3 ft	914 mm
9.18.3.2.	1 sq ft for every 500 sq ft	0.10 m <sup>2</sup> for every 50 m <sup>2</sup>
9.18.4.1.	12 in.	305 mm
	18 in.	457 mm
9.18.4.2.	2 ft	610 mm

Reference	Imperial Value	Metric Equivalent
9.18.4.2.	3 ft	914 mm
9.18.6.1.(1)	2 in.	50.8 mm
	1,500 psi	10.3 MPa
	45 lb	2.20 kg/m <sup>2</sup>
	4 mil	0.101 mm
(2)	4 in.	102 mm
9.19.1.1.(1)	1 sq ft for each 300 sq ft	0.10 m <sup>2</sup> for each 30 m <sup>2</sup>
(2)	1 sq ft for each 150 sq ft	0.10 m <sup>2</sup> for each 15 m <sup>2</sup>
9.19.2.1.	2 ft	610 mm
	22 in.	559 mm
	36 in.	914 mm
	20 in.	508 mm
	28 in.	711 mm
9.20.1.1.	36 ft	11.0 m
9.20.4.1.	½ in.	12.7 mm
	¾ in.	19.0 mm
9.20.6.1.(1)	5½ in.	140 mm
	9 ft	2.74 m
	15 ft	4.57 m
(2)	7½ in.	190 mm
(3)	3⅝ in.	92.1 mm
9.20.6.2.	3⅝ in.	92.1 mm
	2 in.	50.8 mm
	3 in.	76.2 mm
	4 in.	102 mm
	10 in.	254 mm
	25 ft	7.62 m
	14 in.	356 mm
9.20.6.4. -	2⅝ in.	66.7 mm
9.20.6.5.(1)	3 in.	76.2 mm
	36 ft	11.0 m
(2)	1 in.	25.4 mm
(3)	3⅝ in.	92.1 mm
9.20.6.7.	1 ft	305 mm
9.20.7.1.	20 in.	508 mm
9.20.7.2.	8 in.	203 mm
9.20.7.3.	8 in.	203 mm
	4 in.	102 mm
	30 in.	762 mm
	20 in.	508 mm
9.20.7.4.	2 ft	610 mm
9.20.8.1.	2 in.	50.8 mm
9.20.8.2.(1)	2½ in.	63.5 mm
(2)	2½ in.	63.5 mm
	2 in.	50.8 mm
9.20.8.3.(2)	3⅝ in.	92.1 mm
(3)	1½ in.	38.1 mm
9.20.8.4.(1)	8 in.	203 mm
(2)	8 in.	203 mm
(4)	2 in.	50.8 mm



Reference	Imperial Value	Metric Equivalent
9.20.8.4.(4)	12 in.	305 mm
(5)	4 in.	102 mm
	12 in.	305 mm
9.20.8.5.	1 1/4 in.	31.8 mm
9.20.9.1.	0.148 in.	3.76 mm
	18 in.	457 mm
	6 in.	152 mm
9.20.9.3.(2)	24 in.	610 mm
	36 in.	914 mm
	3 5/8 in.	92.1 mm
9.20.9.5.	0.0276 sq in.	17.8 mm <sup>2</sup>
	2 in.	50.8 mm
9.20.9.6.	1 in.	25.4 mm
9.20.9.7.(2)	12 in.	305 mm
	36 in.	914 mm
(3)	36 in.	914 mm
	18 in.	457 mm
9.20.9.8.(1)(b)	24 in.	610 mm
	4 in.	102 mm
(c)	18 in.	457 mm
	36 in.	914 mm
(e)	12 in.	305 mm
9.20.9.9.	3 in.	76.2 mm
	0.013 in.	0.330 mm
	7/8 in.	22.2 mm
9.20.9.11.	0.148 in.	3.76 mm
	3 in.	76.2 mm
	24 in.	610 mm
	8 in.	203 mm
	6 in.	152 mm
9.20.11.1.(1)	6 ft 8 in.	2.03 m
	3 ft	0.914 m
9.20.11.1.(2)	1 1/2 in.	38.1 mm
	3/16 in.	4.76 mm
9.20.11.2.(2)	3/16 in.	4.76 mm
	1 1/2 in.	38.1 mm
(3)	2 ft 8 in.	813 mm
9.20.11.3.	3/16 in.	4.76 mm
	36 in.	914 mm
9.20.11.4.	1/2 in.	12.7 mm
	8 ft	2.44 m
	4 in.	102 mm
9.20.11.5.	3 5/8 in.	92.1 mm
9.20.11.6.	12 in.	305 mm
9.20.12.1.	1 in.	25.4 mm
9.20.12.2.(1)	1 in.	25.4 mm
9.20.12.3.	1 in.	25.4 mm
	3 5/8 in.	92.1 mm
	1/2 in.	12.7 mm
	3 5/8 in.	92.1 mm
9.20.13.1.(1)	0.68 in.	1.73 mm
	0.013 in.	0.330 mm

Reference	Imperial Value	Metric Equivalent
9.20.13.1.(1)	0.014 in.	0.356 mm
	0.018 in.	0.457 mm
	0.019 in.	0.483 mm
9.20.13.2.	0.68 in.	1.73 mm
	0.013 in.	0.330 mm
	0.014 in.	0.356 mm
	0.018 in.	0.457 mm
	45 lb	2.20 kg/m <sup>2</sup>
	6 mil	0.152 mm
	0.002 in.	0.051 mm
9.20.13.6.	1 in.	25.4 mm
9.20.13.7.	6 in.	152 mm
9.20.14.1.	2 ft	610 mm
9.20.15.1.(1)	4 in.	102 mm
9.20.15.4.	1 in.	25.4 mm
9.20.17.1.	40°F	4.4°C
9.21.1.1.	40 ft	12.2 m
	126 sq in.	813 cm <sup>2</sup>
	400,000 Btu/hr	117 kW
9.21.2.4.(2)	9 in.	229 mm
	8 in.	203 mm
	12 in.	305 mm
9.21.3.2.	5/8 in.	15.9 mm
	2,000°F	1090°C
9.21.3.4	700°F	371°C
9.21.3.5.	7 1/2 in.	190 mm
9.21.3.6.	8 in.	203 mm
	2 in.	50.8 mm
9.21.4.4.(1)	3 ft	914 mm
	2 ft	610 mm
	10 ft	3.05 m
(2)	8 in.	203 mm
9.21.4.5.	1 in.	25.4 mm
9.21.4.7.	3 in.	76.2 mm
9.21.4.8.	3 in.	76.2 mm
	3 1/2 in.	88.9 mm
9.21.6.1.	2 in.	50.8 mm
	1/2 in.	12.7 mm
9.21.6.2.	6 in.	152 mm
9.21.6.4.	1/2 in.	12.7 mm
	1/8 in.	3.18 mm
9.21.6.5.(1)	18 in.	457 mm
	750°F	399°C
	9 in.	229 mm
(2)	18 in.	457 mm
9.21.6.6.	12 in.	305 mm
9.22.2.1.	2 in.	50.8 mm
9.22.3.1.(1)	2 in.	50.8 mm
	7 1/2 in.	190 mm
	12 in.	305 mm
9.22.3.2.	3 1/2 in.	88.9 mm
9.22.3.3.	3 1/2 in.	88.9 mm

Reference	Imperial Value	Metric Equivalent
9.22.3.3.	7½ in.	190 mm
9.22.5.1.	16 in.	406 mm
	8 in.	203 mm
9.22.5.2.	6 in.	152 mm
	4 in.	102 mm
9.22.9.1.	6 in.	152 mm
	1½ in.	38.1 mm
	12 in.	305 mm
9.22.9.2.	2 in.	50.8 mm
9.23.1.1.	24 in.	610 mm
9.23.1.2.	50 psf	2.39 kN/m <sup>2</sup>
9.23.1.3.	50 psf	2.39 kN/m <sup>2</sup>
9.23.2.2.	½ in.	12.7 mm
9.23.2.3.	2 mil	0.051 mm
	45 lb	2.20 kg/m <sup>2</sup>
	6 in.	152 mm
9.23.2.5.	6 in.	152 mm
	2 in.	50.8 mm
9.23.3.4.(2)	¼ in.	6.35 mm
(3)	0.126 in.	3.20 mm
	$\frac{7}{16}$ in.	11.1 mm
(4)	0.063 in.	1.60 mm
	$\frac{3}{8}$ in.	9.53 mm
9.23.5.1.	2 in.	50.8 mm
9.23.5.3.	1⅝ in.	41.3 mm
9.23.5.4.	2 in.	50.8 mm
9.23.6.2.	½ in.	12.7 mm
	8 ft.	2.44 m
	4 in.	102 mm
9.23.6.4.	4 ft	1.22 m
	½ in.	12.7 mm
	35 lb/lin ft	511 N/m
9.23.8.1.	3⅝ in.	92.1 mm
9.23.8.4.	6 in.	152 mm
9.23.9.1.(1)	1½ in.	38.1 mm
	¼ in.	6.35 mm
	24 in.	610 mm
(2)	2 ft	610 mm
	½ in.	12.7 mm
9.23.9.5.(1)	7 ft	2.13 m
(3)	1 in. by ⅛ in.	25.4 mm x 3.18 mm
9.23.9.5.(5)	18 in.	457 mm
	4 ft 6 in.	1.37 m
9.23.9.6.	4 ft	1.22 m
	10 ft 8 in.	3.25 m
9.23.9.7.	32 in.	813 mm
	6 ft 8 in.	2.03 m
9.23.9.9.(1)	6 ft	1.83 m
(3)	6 ft	1.83 m
(4)	8 in.	203 mm
	4 ft	1.22 m
9.23.9.12.	3 ft	914 mm

Reference	Imperial Value	Metric Equivalent
9.23.9.12.	2 ft	610 mm
9.23.11.1.	$\frac{3}{4}$ in.	19.0 mm
9.23.11.5.	2 in.	50.8 mm
9.23.11.6.	3 in.	76.2 mm
	6 in.	152 mm
	0.036 in.	0.914 mm
	12 in.	305 mm
	$2\frac{1}{2}$ in.	63.5 mm
9.23.11.8.(2)	3 in.	76.2 mm
	6 in.	152 mm
	0.036 in.	0.914 mm
	$2\frac{1}{2}$ in.	63.5 mm
9.23.12.2.(2)	$3\frac{1}{4}$ in.	82.6 mm
	18 in.	457 mm
9.23.12.3.	16 ft	4.88 m
	32 ft	9.75 m
9.23.12.4.	$\frac{3}{4}$ in.	19.0 mm
	2 in.	50.8 mm
	8 ft	2.44 m
9.23.13.4.	$\frac{11}{16}$ in.	17.5 mm
9.23.13.6.	2 in.	50.8 mm
	$1\frac{1}{2}$ in.	38.1 mm
9.23.13.7.	8 ft	2.44 m
9.23.13.10.	4 ft	1.22 m
9.23.13.13.	1 in.	25.4 mm
9.23.13.14.	40 ft	12.2 m
	24 in.	610 mm
9.23.13.16.(1)	40 ft	12.2 m
	24 in.	610 mm
(a)	60 psf	2.87 kN/m <sup>2</sup>
(2)	14 ft	4.27 m
9.23.14.5.(2)	20 in.	508 mm
	24 in.	610 mm
	$\frac{1}{2}$ in.	12.7 mm
	$\frac{5}{8}$ in.	15.9 mm
	$\frac{3}{4}$ in.	19.0 mm
9.23.15.3.	$\frac{1}{16}$ in.	1.59 mm
9.23.15.4.(1)	12 in.	305 mm
9.23.15.6.	$\frac{7}{16}$ in.	11.1 mm
	16 in.	406 mm
	0.013 in.	0.330 mm
	0.024 in.	0.610 mm
9.23.16.3.(2)	0.126 in.	3.20 mm
	$\frac{7}{16}$ in.	11.1 mm
9.23.16.5.	$\frac{1}{16}$ in.	1.59 mm
9.23.17.2.	4 in.	102 mm
9.23.17.3.(2)	4 in.	102 mm
(3)	3 in.	76.2 mm
9.23.18.3.	$2\frac{1}{2}$ in.	63.5 mm
9.24.1.1.	24 in.	610 mm
9.24.3.3.(2)	$\frac{1}{2}$ in.	12.7 mm
	$\frac{5}{8}$ in.	15.9 mm

Reference	Imperial Value	Metric Equivalent
9.24.3.3.(2)	$\frac{3}{4}$ in.	19.0 mm
	$\frac{7}{8}$ in.	22.2 mm
	32 in.	813 mm
	36 in.	914 mm
	40 in.	1 020 mm
	48 in.	1 220 mm
9.24.4.3.	$1\frac{1}{2}$ in.	38.1 mm
9.24.5.2.	0.047 in.	1.19 mm
9.24.5.3.	12 in.	305 mm
	$\frac{3}{8}$ in.	9.53 mm
	18 in.	457 mm
9.24.6.1.	12 ft	3.66 m
9.24.6.2.	8 ft	2.44 m
9.24.6.5.(1)	2 ft 6 in.	762 mm
9.24.6.6.	$1\frac{1}{2}$ in.	38.1 mm
9.24.6.8.	16 ft	4.88 m
	32 ft	9.75 m
9.25.1.5.	$\frac{3}{8}$ in.	9.5 mm
9.25.2.1.	0.018 in.	0.457 mm
9.25.3.1.	0.021 in.	0.533 mm
	1 in.	25.4 mm
9.25.3.1.(2)	2 in.	50.8 mm
	24 in.	610 mm
	12 in.	305 mm
	$2\frac{1}{2}$ in.	63.5 mm
	1 in.	25.4 mm
9.25.3.3.(1)	$\frac{1}{2}$ in.	12.7 mm
9.25.3.6.	8 ft	2.44 m
9.26.4.4.	24 in.	610 mm
9.26.4.5.(2)	R 12	RSI 2.11
9.26.5.5.(1)	24 in.	610 mm
9.26.5.8.	$\frac{1}{4}$ in.	6.35 mm
	$\frac{1}{2}$ in.	12.7 mm
9.26.5.10.(2)	$\frac{1}{2}$ in.	12.7 mm
	R 1	RSI 0.176
9.26.5.11.(1)	6 in.	152 mm
9.26.6.2.	4 perm-inches	6 ng/Pa.s.m.
9.26.6.6.	1 in.	25.4 mm
	4 in.	102 mm
9.27.2.2.	$\frac{1}{2}$ in.	12.7 mm
	$\frac{3}{8}$ in.	9.52 mm
	0.116 in.	2.95 mm
	$\frac{3}{16}$ in.	4.76 mm
	0.080 in.	2.03 mm
9.27.2.3.(a)	$1\frac{1}{8}$ in.	28.6 mm
	0.063 in.	1.60 mm
	$\frac{3}{8}$ in.	9.52 mm
(b)	$\frac{3}{4}$ in.	19.0 mm
	0.063 in.	1.60 mm
	1 in.	25.4 mm
	$\frac{7}{16}$ in.	11.1 mm
9.27.4.1.	0.068 in.	1.73 mm

Reference	Imperial Value	Metric Equivalent
9.27.4.1.	0.013 in.	0.330 mm
	0.014 in.	0.356 mm
	0.018 in.	0.457 mm
	0.019 in.	0.483 mm
9.27.4.4.(1)	24 in.	610 mm
(2)	55 lb.	2.69 kg/m <sup>2</sup>
	90 lb.	4.39 kg/m <sup>2</sup>
	18 in.	457 mm
	1 in.	25.4 mm
(3)	90 lb	4.39 kg/m <sup>2</sup>
	36 in.	914 mm
	4 in.	102 mm
9.27.4.5.	6 mil	0.152 mm
	55 lb	2.69 kg/m <sup>2</sup>
	24 in.	610 mm
	3 in.	76.2 mm
	5 in.	127 mm
9.27.4.6.(2)	1 in.	25.4 mm
	6 in.	152 mm
	4 in.	102 mm
(3)	3 in.	76.2 mm
9.27.4.7.(a)	3 in.	76.2 mm
(b)	3 in.	76.2 mm
9.27.4.8.(1)	6 in.	152 mm
(2)	1 in.	25.4 mm
	6 in.	152 mm
	4 in.	102 mm
9.27.4.9.(2)	6 in.	152 mm
9.27.4.10.(1)	30 in.	762 mm
9.27.4.11.	6 in.	152 mm
9.27.5.1.	3 ft	914 mm
	12 in.	305 mm
9.27.5.2.(1)	6 mil	0.152 mm
	19 in.	483 mm
	45 lb	2.20 kg/m <sup>2</sup>
(2)	4 in.	102 mm
9.27.5.3.	3 ft	914 mm
9.27.6.1.	4 lb per square	0.195 kg/m <sup>2</sup>
	2 mil	0.051 mm
9.27.6.2.(a)	2 in.	50.8 mm
(b)	4 in.	102 mm
9.27.6.3.(1)(a)	14 lb per 100 sq ft	0.684 kg/m <sup>2</sup>
(b)	½ in.	12.7 mm
9.27.7.2.(1)	½ in.	12.7 mm
	12 in.	305 mm
(2)	85 lb	4.15 kg/m <sup>2</sup>
	12 in.	305 mm
(3)	85 lb	4.15 kg/m <sup>2</sup>
9.27.7.3.	2 in.	50.8 mm
9.27.7.4.	36 in.	914 mm
9.27.7.5.	1 in.	25.4 mm
	1½ in.	38.1 mm

Reference	Imperial Value	Metric Equivalent
9.27.7.5.	1/2 in.	12.7 mm
9.27.7.6.	1 in.	25.4 mm
9.27.7.7.	4 in.	102 mm
	6 in.	152 mm
	1 in.	25.4 mm
9.27.8.2.	8 in.	203 mm
9.27.8.3.	1 gal/100 sq ft	0.49 L/m <sup>2</sup>
	20 lb/100 sq ft	0.98 kg/m <sup>2</sup>
9.27.8.4.	4 in.	102 mm
9.27.8.5.	2 in.	50.8 mm
	1 in.	25.4 mm
	2 in.	50.8 mm
9.27.8.6.	12 in.	305 mm
	1 in.	25.4 mm
	1 1/2 in.	38.1 mm
	2 in.	50.8 mm
9.27.9.3.	16 in.	406 mm
	3 in.	76.2 mm
	14 in.	356 mm
9.27.9.4.	1/4 in.	6.35 mm
	1 1/2 in.	38.1 mm
9.27.9.5.	3/4 in.	19.0 mm
	1 1/2 in.	38.1 mm
9.27.10.1.(1)	1/2 in.	12.7 mm
9.27.10.2.	18 in.	457 mm
	4 in.	102 mm
	14 in.	356 mm
	1 1/4 in.	31.8 mm
9.27.10.3.(2)	36 in.	914 mm
	12 in.	305 mm
(3)	18 in.	457 mm
9.27.10.4.	1/4 in.	6.35 mm
	1 1/2 in.	38.1 mm
9.27.10.5.	3/4 in.	19.0 mm
	1 1/2 in.	38.1 mm
9.27.11.2.	1/4 in.	6.35 mm
	5/8 in.	15.9 mm
9.27.11.4.(3)	3 ft	0.91 m
	5 ft	1.52 m
9.27.12.2.	20 lb/100 sq ft	0.98 kg/m <sup>2</sup>
9.27.13.1.(1)	250 lb/100 sq ft	12.2 kg/m <sup>2</sup>
9.27.14.1.	0.013 in.	0.330 mm
	0.014 in.	0.354 mm
	0.018 in.	0.457 mm
	0.019 in.	0.483 mm
9.28.2.2.	8 in.	203 mm
9.28.2.3.	2 in.	50.8 mm
9.28.2.4.	3/8 in.	9.53 mm
9.28.3.1.	0.068 in.	1.73 mm
	0.013 in.	0.330 mm
	0.014 in.	0.354 mm
	0.018 in.	0.457 mm

Reference	Imperial Value	Metric Equivalent
9.28.3.1.	0.019 in.	0.483 mm
9.28.3.4.	2 in.	50.8 mm
9.28.5.2.	24 in.	610 mm
9.28.5.3.(1)(b)	16 in.	406 mm
	24 in.	610 mm
9.28.5.4.	$\frac{9}{16}$ in.	14.3 mm
	$\frac{1}{2}$ in.	12.7 mm
	$\frac{5}{8}$ in.	15.9 mm
9.28.5.5.	$\frac{9}{16}$ in.	14.3 mm
	$\frac{5}{16}$ in.	7.94 mm
9.28.5.6.	$\frac{9}{16}$ in.	14.3 mm
	$\frac{3}{8}$ in.	9.52 mm
	$\frac{1}{2}$ in.	12.7 mm
9.28.5.8.	$\frac{3}{4}$ in.	19.0 mm
9.28.6.2.	$\frac{9}{16}$ in.	14.3 mm
	12 in.	305 mm
9.28.6.3.	$\frac{3}{16}$ in.	4.76 mm
	$\frac{15}{32}$ in.	11.9 mm
	8 in.	203 mm
	$\frac{9}{16}$ in.	14.3 mm
	8 in.	203 mm
	12 in.	305 mm
9.28.6.4.(1)	$\frac{1}{16}$ in. per in.	1 mm per 16 mm
(a)	$\frac{3}{8}$ in.	9.52 mm
(b)	1 in.	25.4 mm
(c)	$\frac{1}{2}$ in.	12.7 mm
9.28.7.2.	$2\frac{1}{2}$ in.	63.5 mm
	14 in.	356 mm
9.28.7.3.	$\frac{3}{4}$ in.	19.0 mm
	1 in.	25.4 mm
	2 in.	50.8 mm
9.28.7.4.(1)	$1\frac{1}{2}$ in.	38.1 mm
(2)	$1\frac{1}{2}$ in.	38.1 mm
9.28.7.5.(4)	$\frac{1}{2}$ in.	12.7 mm
(5)	$\frac{1}{2}$ in.	12.7 mm
9.28.8.2.(1)	165 lb per square	8.06 kg/m <sup>2</sup>
(2)	$\frac{3}{16}$ in.	4.76 mm
	16 in.	406 mm
	$\frac{1}{4}$ in.	6.35 mm
	24 in.	610 mm
	$\frac{1}{8}$ in.	3.18 mm
9.28.8.3.	1 in.	25.4 mm
9.28.8.4.(2)	1 in.	25.4 mm
9.28.9.2.	$\frac{1}{4}$ in.	6.35 mm
9.28.9.4.(1)(a)	$\frac{1}{16}$ in.	1.59 mm
(c)	1 in.	25.4 mm
9.28.9.5.(1)	$\frac{1}{16}$ in.	1.59 mm
	1 in.	25.4 mm
9.28.10.2.	$\frac{1}{4}$ in.	6.35 mm
	$\frac{5}{16}$ in.	7.94 mm
	16 in.	406 mm
9.28.10.3.(1)	$\frac{3}{16}$ in.	4.76 mm



Reference	Imperial Value	Metric Equivalent
9.28.10.3.(2)	1 in.	25.4 mm
9.28.10.4.(1)	$\frac{3}{16}$ in.	4.76 mm
(2)	1 in.	25.4 mm
9.28.11.2.(1)	$\frac{5}{16}$ in.	7.94 mm
(2)	$\frac{3}{8}$ in.	9.52 mm
	16 in.	406 mm
	$\frac{1}{2}$ in.	12.7 mm
	24 in.	610 mm
9.28.11.3.(1)	$\frac{1}{8}$ in.	3.18 mm
9.28.11.3.(2)	1 in.	25.4 mm
9.29.1.4.	8 in.	203 mm
9.29.3.2.(1)	0.126 in.	3.20 mm
	$\frac{7}{16}$ in.	11.1 mm
(2)	0.078 in.	1.98 mm
9.29.3.3.	1 in.	25.4 mm
	1 $\frac{1}{2}$ in.	38.1 mm
9.29.4.2.	0.047 in.	1.19 mm
	6 in.	152 mm
9.29.4.4.	$\frac{1}{4}$ in.	6.35 mm
9.29.4.5.(1)(a)	2 in.	50.8 mm
(c)(i)	6 in.	152 mm
(c)(ii)	6 in.	152 mm
9.29.4.7.(1)(a)	6 in.	152 mm
	16 in.	406 mm
(b)	4 in.	102 mm
	24 in.	610 mm
	16 per sq yd	20/m <sup>2</sup>
9.29.4.8.	6 in.	152 mm
	16 in.	406 mm
	4 in.	102 mm
	24 in.	610 mm
9.29.6.1.	50°F	10°C
9.29.6.2.	$\frac{5}{8}$ in.	15.9 mm
9.29.6.3.	$\frac{1}{4}$ in.	6.35 mm
9.29.6.4.	$\frac{1}{4}$ in.	6.35 mm
9.29.6.5.	$\frac{1}{8}$ in.	3.18 mm
9.30.1.3.(1)	$\frac{1}{2}$ in.	12.7 mm
	250°F	139°C
9.30.2.1.	6 ft	1.83 m
	46 in.	1.17 m
	16 in.	406 mm
9.30.3.1.	16 in.	406 mm
	24 in.	610 mm
9.30.3.2.	2 in.	50.8 mm
9.30.4.2.	$\frac{3}{8}$ in.	9.52 mm
	16 in.	406 mm
	$\frac{1}{2}$ in.	12.7 mm
	24 in.	610 mm
9.30.4.4.(1)	16 in.	406 mm
(3)	24 in.	610 mm
9.30.4.5.	1 $\frac{1}{4}$ in.	31.8 mm
	0.090 in.	2.29 mm

Reference	Imperial Value	Metric Equivalent
9.30.4.5.	$\frac{19}{64}$ in.	7.54 mm
9.30.4.6.(a)	1 in.	25.4 mm
	$\frac{3}{8}$ in.	9.52 mm
(b)	$1\frac{1}{8}$ in.	28.6 mm
	$\frac{1}{2}$ in.	12.7 mm
(c)	0.063 in.	1.60 mm
	$\frac{3}{4}$ in.	19.0 mm
9.30.5.2.(2)	1.4 lb/sq yd	0.76 kg/m <sup>2</sup>
	0.063 in.	1.60 mm
(3)	1.95 lb/sq yd	1.06 kg/m <sup>2</sup>
	0.063 in.	1.60 mm
	0.114 in.	2.90 mm
9.30.5.3.	0.126 in.	3.20 mm
	$1\frac{1}{2}$ in.	38.1 mm
	1 in.	25.4 mm
	6 in.	152 mm
9.30.5.4.	0.078 in.	1.98 mm
	$1\frac{1}{2}$ in.	38.1 mm
	$\frac{3}{4}$ in.	19.0 mm
	6 in.	152 mm
9.30.5.5.(1)(a)	1 in.	25.4 mm
(b)	$\frac{1}{2}$ in.	12.7 mm
9.30.5.6.	$\frac{1}{4}$ in.	6.35 mm
9.30.6.2.	2 in.	50.8 mm
9.30.6.3.	6 in.	152 mm
	18 in.	457 mm
9.30.7.3.(1)	$\frac{3}{8}$ in.	9.52 mm
(2)	$\frac{3}{8}$ in.	9.52 mm
9.30.7.10.	50°F	10°C
	70°F	21.1°C
9.30.8.2.(1)	$\frac{3}{8}$ in.	9.52 mm
	16 in.	406 mm
	$\frac{1}{2}$ in.	12.7 mm
	24 in.	610 mm
(2)	$\frac{3}{8}$ in.	9.52 mm
	24 in.	610 mm
9.30.8.4.	0.090 in.	2.29 mm
	$\frac{7}{32}$ in.	5.56 mm
9.30.8.5.(1)	7 in.	178 mm
	8 in.	203 mm
	2 in.	50.8 mm
	12 in.	305 mm
9.30.8.5.(3)	8 in.	203 mm
	$\frac{3}{8}$ in.	9.52 mm
9.30.8.6.(2)	12 in.	305 mm
	16 in.	406 mm
9.30.8.7.	$\frac{3}{8}$ in.	9.52 mm
	6 in.	152 mm
9.30.8.8.	12 in.	305 mm
	16 in.	406 mm
9.30.8.9.	50°F	10°C
9.30.8.11.(12)	$\frac{1}{8}$ in.	3.18 mm

Reference	Imperial Value	Metric Equivalent
9.30.8.13.	5 in.	127 mm
9.30.8.14.	8 in.	203 mm
	10 in.	254 mm
9.30.8.15.	10 in.	254 mm
	16 in.	406 mm
9.30.9.3.	1½ in.	38.1 mm
	6 in.	152 mm
	12 in.	305 mm
9.30.10.2.	⅛ in.	3.18 mm
	¼ in.	6.35 mm
	16 in.	406 mm
	⅜ in.	9.52 mm
	24 in.	610 mm
9.30.10.3.	1½ in.	38.1 mm
	6 in.	152 mm
	12 in.	305 mm
9.30.11.2.(1)	⅞ in.	11.1 mm
	16 in.	406 mm
9.30.11.2.(2)	½ in.	12.7 mm
	16 in.	406 mm
9.30.11.3.	0.102 in.	2.59 mm
	¾ in.	19.0 mm
	4 in.	102 mm
	8 in.	203 mm
9.30.12.2.	¼ in.	6.35 mm
	16 in.	406 mm
	⅜ in.	9.52 mm
	24 in.	610 mm
	¼ in.	6.35 mm
	24 in.	610 mm
9.30.12.3.	1½ in.	38.1 mm
	6 in.	152 mm
	12 in.	305 mm
9.31.2.3.	¼ in.	6.35 mm
9.31.2.4.	6 in.	152 mm
	8 in.	203 mm
9.31.2.5.(1)	¾ in.	19.0 mm
	¼ in.	6.35 mm
	⅞ in.	22.2 mm
	⅝ in.	7.94 mm
9.31.2.5.(2)	0.047 in.	1.19 mm
	⅜ in.	9.52 mm
	⅞ in.	22.2 mm
	¼ in.	6.35 mm
	1⅛ in.	28.6 mm
	⅝ in.	7.94 mm
	⅜ in.	9.52 mm
9.31.2.6.	8 in.	203 mm
9.31.6.2.(1)	1¼ in.	31.8 mm
(4)	⅛ in.	1.59 mm
9.32.6.1.	140°F	60°C
	165°F	73.9°C

Reference	Imperial Value	Metric Equivalent
9.33.1.1.	4,000 cfm	113 m <sup>3</sup> /min
9.33.1.2.	4,000 cfm	113 m <sup>3</sup> /min
9.33.4.3.(2)	50 cfm	1.42 m <sup>3</sup> /min
9.33.4.8.(2)	5 in.	127 mm
9.34.1.1.	400,000 Btu/hr	117 kW
	4,000 cfm	113 m <sup>3</sup> /min
9.34.1.2.	400,000 Btu/hr	117 kW
	4,000 cfm	113 m <sup>3</sup> /min
9.34.2.5.(1)	72°F	22.2°C
9.34.2.6.	65°F	18.3°C
9.34.3.2.(2)	2 ft	610 mm
9.34.3.3.(2)	12 in.	305 mm
9.34.3.3.(3)	0.013 in.	0.330 mm
	14 in.	356 mm
	0.016 in.	0.406 mm
	14 in.	356 mm
	1/2 in.	12.7 mm
9.34.3.5.	1/4 in.	6.35 mm
9.34.3.8.	3 in.	76.2 mm
	1/2 in.	12.7 mm
	18 in.	457 mm
9.34.3.9.	3 in.	76.2 mm
	6 in.	152 mm
	6 ft	1.83 m
	1/2 in.	12.7 mm
9.34.3.10.(1)	6 in.	152 mm
	3 ft	0.91 m
(2)	6 in.	152 mm
	3 ft	0.91 m
	1 in.	25.4 mm
	6 ft	1.83 m
(3)	1 in.	25.4 mm
	5/16 in.	7.94 mm
9.34.3.11.	1/4 in.	6.35 mm
9.34.3.12.	4 in.	102 mm
9.34.3.13.	1 in.	25.4 mm
9.34.3.16.	14 ft	4.27 m
	20 sq in.	129 cm <sup>2</sup>
9.34.4.2.	400 sq ft	37.2 m <sup>2</sup>
9.34.4.3.	6 ft	1.83 m
9.34.4.4.(1)	10,000 Btu/hr	2.9 kW
9.34.4.5.	4 ft	1.22 m
9.34.4.6.	160°F	71.1°C
9.34.6.1.(1)	4	RSI 0.704
(2)	7	RSI 1.23
9.34.7.2.	2 ft	610 mm
9.34.7.11.	60,000 Btu/hr	17.6 kW
9.34.8.3.	1/2 in.	12.7 mm
	200°F	93°C
	250°F	121°C
	1 in.	25.4 mm
	250°F	121°C

Reference	Imperial Value	Metric Equivalent
9.35.2.6.	300 sq ft	27.9 m <sup>2</sup>
9.35.3.1.(1)	6 ft	1.83 m
(2)	3 ft	914 mm
	12 in.	305 mm
9.35.3.5.	15 ft.	4.57 m
9.35.3.7.	35 ft	10.7 m
9.35.5.2.	5 ft 8 in.	1.73 m
	4 in.	102 mm
9.35.5.3.	10 ft	3.05 m
9.35.5.4.(1)	10 ft	3.05 m
(2)	10 ft	3.05 m
	15 ft	4.57 m
9.35.5.6.(1)(a)	3 ft	914 mm
9.36.3.3.	500 sq ft	46.5 m <sup>2</sup>
9.36.3.4.	6 in.	152 mm
	1 in.	25.4 mm
	8 in. by 8 in.	203 mm x 203 mm
9.37.2.5.(2)(c)	½ in.	12.7 mm
9.38.2.3.	6 ft	1.83 m
9.38.3.2.	½ in.	12.7 mm
	foot	305 mm
9.39.1.2.	40 ft	12.2 m
	24 in.	610 mm
9.39.3.7.	20 psf	0.96 kN/m <sup>2</sup>
	30 psf	1.44 kN/m <sup>2</sup>
	40 psf	1.92 kN/m <sup>2</sup>
	50 psf	2.39 kN/m <sup>2</sup>
9.39.3.10.(1)(a)	10 psf	0.48 kN/m <sup>2</sup>



# **METRIC EQUIVALENTS FOR TABULAR VALUES**





**Table 3.1.2.A.**

Group F Division 2: more than 48.8 kg/m<sup>2</sup>  
 1130 MJ/m<sup>2</sup>  
 Group F Division 3: not more than 48.8 kg/m<sup>2</sup>  
 1130 MJ/m<sup>2</sup>

**Table 3.1.14.A.**

Forming Part of Article 3.1.14.1.

Item No.	Type of Use of Floor Area or Part Thereof	Area per Person m <sup>2</sup>
	<b>Assembly uses</b>	
1	space with fixed seats	See 3.1.14.1.(4)
2	space with nonfixed seats	0.74
3	space with nonfixed seats and tables	0.93
4	standing space	0.37
5	stadia and grandstands	0.56
6	bowling alleys, pool and billiard rooms	9.29
7	classrooms	1.86
8	school shops and vocational rooms	9.29
9	reading or writing rooms or lounges	1.86
10	dinning, beverages and cafeteria space	1.11
11	laboratories in schools	4.65
12	exhibition halls other than those classified in Group E	2.79
	<b>Institutional uses</b>	
1	surgical and obstetrical suites	11.6
2	wards containing more than 2 beds	4.65
3	detention quarters	11.6
4	sleeping rooms containing 1 bed	6.97
	<b>Residential uses</b>	
1	houses	See 3.1.14.1.(5)
2	dormitories	4.65
	<b>Business and Personal Services uses</b>	
1	personal service shops	4.65
2	offices	9.29
	<b>Mercantile uses</b>	
1	retail sales floors at ground, basement or cellar	2.79
2	other retail sales floors	5.57
	<b>Industrial uses</b>	
1	manufacturing or process rooms	4.65
2	storage garage	46.5
3	storage space (warehouse)	27.9
4	aircraft hangars	46.5
	<b>Other uses</b>	
1	cleaning and repair of goods	4.65
2	kitchens	9.29
3	storage	46.5

**Table 3.2.2.A.**

Forming Part of Sentence 3.2.2.14(1)

No. of Storeys	Unsprinklered Maximum Area, m <sup>2</sup>		
	Facing 1 Street	Facing 2 Streets	Facing 3 Streets
1	1 490	1 860	2 230
2	743	929	1 110
Column 1	2	3	4

**Table 3.2.2.B.**

Forming Part of Sentence 3.2.2.19.(1)

No. of Storeys	Unsprinklered Maximum Area, m <sup>2</sup>		
	Facing 1 Street	Facing 2 Streets	Facing 3 Streets
1	3 720	4 650	5 570
2	1 860	2 320	2 790
Column 1	1	3	4

**Table 3.2.2.C.**

Forming Part of Sentence 3.2.2.24.(1)

No. of Storeys	Unsprinklered Maximum Area, m <sup>2</sup>	Sprinklered Maximum Area, m <sup>2</sup>
1	929	2 230
2	465	1 490
Column 1	2	3

**Table 3.2.2.D.**

Forming Part of Sentence 3.2.2.26.(1)

No. of Storeys	Unsprinklered Maximum Area, m <sup>2</sup>		
	Facing 1 Street	Facing 2 Streets	Facing 3 Streets
1	1 110	1 390	1 670
2	836	1 050	1 250
3	557	697	836
Column 1	2	3	4

**Table 3.2.2.E.**

Forming Part of Sentence 3.2.2.27.(1)

No. of Storeys	Unsprinklered Maximum Area, m <sup>2</sup>		
	Facing 1 Street	Facing 2 Streets	Facing 3 Streets
1	unlimited	unlimited	unlimited
2	5 570	unlimited	unlimited
3	3 720	4 650	5 570
4	2 790	3 480	4 180
5	2 230	2 790	3 340
6	1 860	2 320	2 790
Column 1	2	3	4

**Table 3.2.2.F.**

Forming Part of Sentence 3.2.2.29.(1)

No. of Storeys	Unsprinklered Maximum Area, m <sup>2</sup>		
	Facing 1 Street	Facing 2 Streets	Facing 3 Streets
1	929	1 160	1 390
2	743	929	1 110
Column 1	2	3	4

**Table 3.2.2.G.**

Forming Part of Sentence 3.2.2.30.(1)

No. of Storeys	Unsprinklered Maximum Area, m <sup>2</sup>		
	Facing 1 Street	Facing 2 Streets	Facing 3 Streets
1	4 460	5 570	6 690
2	2 230	2 790	3 340
3	1 490	1 860	2 230
Column 1	2	3	4

**Table 3.2.2.H.**

Forming Part of Sentence 3.2.2.31.(1)

No. of Storeys	Unsprinklered Maximum Area, m <sup>2</sup>		
	Facing 1 Street	Facing 2 Streets	Facing 3 Streets
1	unlimited	unlimited	unlimited
2	6 690	unlimited	unlimited
3	4 460	5 570	6 690
4	3 340	4 180	5 020
5	2 680	3 340	4 010
6	2 230	2 290	3 340
Column 1	2	3	4

**Table 3.2.2.I.**

Forming Part of Sentence 3.2.2.33.(1)

No. of Storeys	Unsprinklered Maximum Area, m <sup>2</sup>		
	Facing 1 Street	Facing 2 Streets	Facing 3 Streets
1	929	1 160	1 390
2	557	697	836
Column 1	2	3	4

**Table 3.2.2.J.**

Forming Part of Sentence 3.2.2.34.(1)

No. of Storeys	Unsprinklered Maximum Area, m <sup>2</sup>		
	Facing 1 Street	Facing 2 Streets	Facing 3 Streets
1	1 390	1 390	1 390
2	1 110	1 390	1 390
3	743	929	1 110

No. of Storeys	Sprinklered Maximum Area, m <sup>2</sup>		
	Facing 1 Street	Facing 2 Streets	Facing 3 Streets
1	4 460	5 570	6 690
2	2 230	2 790	3 340
3	1 490	1 860	2 230
Column 1	2	3	4

**Table 3.2.2.K.**

Forming Part of Sentence 3.2.2.35.(1)

No. of Storeys	Sprinklered Maximum Area, m <sup>2</sup>		
	Facing 1 Street	Facing 2 Streets	Facing 3 Streets
1	unlimited	unlimited	unlimited
2	6 970	unlimited	unlimited
3	4 650	5 810	6 970
4	3 480	4 350	5 230
5	2 790	3 480	4 180
6	2 320	2 900	3 480
Column 1	2	3	4

**Table 3.2.2.L.**

Forming Part of Sentence 3.2.2.37.(1)

No. of Storeys	Unsprinklered Maximum Area, m <sup>2</sup>		
	Facing 1 Street	Facing 2 Streets	Facing 3 Streets
1	743	929	1 110
2	372	465	557
Column 1	2	3	4

**Table 3.2.2.M.**

Forming Part of Sentence 3.2.2.38.(1)

No. of Storeys	Sprinklered Maximum Area, m <sup>2</sup>		
	Facing 1 Street	Facing 2 Streets	Facing 3 Streets
1	2 230	2 790	3 340
2	1 110	1 390	1 670
3	743	929	1 110
Column 1	2	3	4

**Table 3.2.2.N.**

Forming Part of Sentence 3.2.2.39.(1)

No. of Storeys	Unsprinklered Maximum Area, m <sup>2</sup>		
	Facing 1 Street	Facing 2 Streets	Facing 3 Streets
1	2 230	2 790	3 340
2	1 110	1 390	1 670
3	743	929	1 110
4	557	697	836
Column 1	2	3	4

**Table 3.2.2.O.**

Forming Part of Sentence 3.2.2.40.(1)

No. of Storeys	Sprinklered Maximum Area, m <sup>2</sup>		
	Facing 1 Street	Facing 2 Streets	Facing 3 Streets
1	5 570	6 970	8 360
2	2 790	3 480	4 180
3	1 860	2 320	2 790
4	1 390	1 740	2 090
Column 1	2	3	4

**Table 3.2.2.P.**

Forming Part of Sentence 3.2.2.41.(1)

No. of Storeys	Unsprinklered Maximum Area, m <sup>2</sup>		
	Facing 1 Street	Facing 2 Streets	Facing 3 Streets
1	929	1 160	1 390
2	557	697	836
No. of Storeys	Sprinklered Maximum Area, m <sup>2</sup>		
	Facing 1 Street	Facing 2 Streets	Facing 3 Streets
1	2 790	3 480	4 180
2	1 110	1 390	1 670
Column 1	2	3	4

**Table 3.2.2.Q.**

Forming Part of Sentence 3.2.2.42.(1)

No. of Storeys	Unsprinklered Maximum Area, m <sup>2</sup>		
	Facing 1 Street	Facing 2 Streets	Facing 3 Streets
1	2 970	3 720	4 460
2	1 490	1 860	2 230
3	994	1 240	1 490
4	743	929	1 110
Column 1	2	3	4

**Table 3.2.2.R.**

Forming Part of Sentence 3.2.2.43.(1)

No. of Storeys	Unsprinklered Maximum Area, m <sup>2</sup>		
	Facing 1 Street	Facing 2 Streets	Facing 3 Streets
1	5 570	6 970	8 360
2	2 790	3 480	4 180
3	1 860	2 320	2 790
4	1 390	1 740	2 090
Column 1	2	3	4

**Table 3.2.2.S.**

Forming Part of Sentence 3.2.2.44.(1)

No. of Storeys	Unsprinklered Maximum Area, m <sup>2</sup>		
	Facing 1 Street	Facing 2 Streets	Facing 3 Streets
1	8 360	10 450	12 540
2	4 180	5 230	6 270
3	2 790	3 480	4 180
4	2 090	2 610	3 140
5	1 670	2 090	2 510
6	1 390	1 740	2 090
Column 1	2	3	4

**Table 3.2.2.T.**

Forming Part of Sentence 3.2.2.46.(1)

No. of Storeys	Unsprinklered Maximum Area, m <sup>2</sup>		
	Facing 1 Street	Facing 2 Streets	Facing 3 Streets
1	1 490	1 860	2 230
2	743	929	1 110

No. of Storeys	Sprinklered Maximum Area, m <sup>2</sup>		
	Facing 1 Street	Facing 2 Streets	Facing 3 Streets
1	4 460	5 570	6 690
2	1 490	1 860	2 230
Column 1	2	3	4

**Table 3.2.2.U.**

Forming Part of Sentence 3.2.2.47.(1)

No. of Storeys	Unsprinklered Maximum Area, m <sup>2</sup>		
	Facing 1 Street	Facing 2 Streets	Facing 3 Streets
1	4 460	5 570	6 690
2	2 230	2 790	3 340
3	1 490	1 860	2 230
4	1 110	1 390	1 670
Column 1	2	3	4

**Table 3.2.2.V.**

Forming Part of Sentence 3.2.2.48.(1)

No. of Storeys	Unsprinklered Maximum Area, m <sup>2</sup>		
	Facing 1 Street	Facing 2 Streets	Facing 3 Streets
1	5 200	6 500	7 800
Column 1	2	3	4



**Table 3.2.2.X.**

Forming Part of Sentence 3.2.2.51.(1)

No. of Storeys	Unsprinklered Maximum Area, m <sup>2</sup>		
	Facing 1 Street	Facing 2 Streets	Facing 3 Streets
1	unlimited	unlimited	unlimited
2	6 690	8 360	10 030
3	4 460	5 570	6 690
4	3 340	4 180	5 020
5	2 680	3 340	4 010
6	2 230	2 790	3 340
Column 1	2	3	4

Table 3.2.3.A.

### Forming Part of Subsection 3.2.3.

[illegible]

Table 3.2.3.B.

Forming Part of Subsection 3.2.3.

## AREA OF UNPROTECTED OPENING (PER CENT) FOR GROUP E AND F DIVISION 1 AND 2 OCCUPANCIES

EXPLOSING BUILDING FACE		Limiting distance (m)																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																											
Max. Area (m <sup>2</sup> )	RATIO H/101	1.22	1.52	1.83	2.14	2.44	2.74	3.05	3.36	3.66	3.96	4.27	4.57	4.88	5.18	5.48	5.79	6.10	6.40	6.71	7.01	7.32	7.62	7.92	8.23	8.53	8.84	9.14	9.45	9.76	10.05	10.4	10.7	11.0	11.3	11.6	11.9	12.2	12.5	12.8	13.1	13.4	13.7	14.0	14.3	14.6	14.9	15.2	15.5	15.8	16.1	16.4	16.7	17.0	17.3	17.6	17.9	18.2	18.5	18.8	19.1	19.4	19.7	20.0	20.3	20.6	20.9	21.2	21.5	21.8	22.1	22.4	22.7	23.0	23.3	23.6	23.9	24.2	24.5	24.8	25.1	25.4	25.7	26.0	26.3	26.6	26.9	27.2	27.5	27.8	28.1	28.4	28.7	29.0	29.3	29.6	29.9	30.2	30.5	30.8	31.1	31.4	31.7	32.0	32.3	32.6	32.9	33.2	33.5	33.8	34.1	34.4	34.7	35.0	35.3	35.6	35.9	36.2	36.5	36.8	37.1	37.4	37.7	38.0	38.3	38.6	38.9	39.2	39.5	39.8	40.1	40.4	40.7	41.0	41.3	41.6	41.9	42.2	42.5	42.8	43.1	43.4	43.7	44.0	44.3	44.6	44.9	45.2	45.5	45.8	46.1	46.4	46.7	47.0	47.3	47.6	47.9	48.2	48.5	48.8	49.1	49.4	49.7	50.0	50.3	50.6	50.9	51.2	51.5	51.8	52.1	52.4	52.7	53.0	53.3	53.6	53.9	54.2	54.5	54.8	55.1	55.4	55.7	56.0	56.3	56.6	56.9	57.2	57.5	57.8	58.1	58.4	58.7	59.0	59.3	59.6	59.9	60.2	60.5	60.8	61.1	61.4	61.7	62.0	62.3	62.6	62.9	63.2	63.5	63.8	64.1	64.4	64.7	65.0	65.3	65.6	65.9	66.2	66.5	66.8	67.1	67.4	67.7	68.0	68.3	68.6	68.9	69.2	69.5	69.8	70.1	70.4	70.7	71.0	71.3	71.6	71.9	72.2	72.5	72.8	73.1	73.4	73.7	74.0	74.3	74.6	74.9	75.2	75.5	75.8	76.1	76.4	76.7	77.0	77.3	77.6	77.9	78.2	78.5	78.8	79.1	79.4	79.7	80.0	80.3	80.6	80.9	81.2	81.5	81.8	82.1	82.4	82.7	83.0	83.3	83.6	83.9	84.2	84.5	84.8	85.1	85.4	85.7	86.0	86.3	86.6	86.9	87.2	87.5	87.8	88.1	88.4	88.7	89.0	89.3	89.6	89.9	90.2	90.5	90.8	91.1	91.4	91.7	92.0	92.3	92.6	92.9	93.2	93.5	93.8	94.1	94.4	94.7	95.0	95.3	95.6	95.9	96.2	96.5	96.8	97.1	97.4	97.7	98.0	98.3	98.6	98.9	99.2	99.5	99.8	100.1	100.4	100.7	101.0	101.3	101.6	101.9	102.2	102.5	102.8	103.1	103.4	103.7	104.0	104.3	104.6	104.9	105.2	105.5	105.8	106.1	106.4	106.7	107.0	107.3	107.6	107.9	108.2	108.5	108.8	109.1	109.4	109.7	110.0	110.3	110.6	110.9	111.2	111.5	111.8	112.1	112.4	112.7	113.0	113.3	113.6	113.9	114.2	114.5	114.8	115.1	115.4	115.7	116.0	116.3	116.6	116.9	117.2	117.5	117.8	118.1	118.4	118.7	119.0	119.3	119.6	119.9	120.2	120.5	120.8	121.1	121.4	121.7	122.0	122.3	122.6	122.9	123.2	123.5	123.8	124.1	124.4	124.7	125.0	125.3	125.6	125.9	126.2	126.5	126.8	127.1	127.4	127.7	128.0	128.3	128.6	128.9	129.2	129.5	129.8	130.1	130.4	130.7	131.0	131.3	131.6	131.9	132.2	132.5	132.8	133.1	133.4	133.7	134.0	134.3	134.6	134.9	135.2	135.5	135.8	136.1	136.4	136.7	137.0	137.3	137.6	137.9	138.2	138.5	138.8	139.1	139.4	139.7	140.0	140.3	140.6	140.9	141.2	141.5	141.8	142.1	142.4	142.7	143.0	143.3	143.6	143.9	144.2	144.5	144.8	145.1	145.4	145.7	146.0	146.3	146.6	146.9	147.2	147.5	147.8	148.1	148.4	148.7	149.0	149.3	149.6	149.9	150.2	150.5	150.8	151.1	151.4	151.7	152.0	152.3	152.6	152.9	153.2	153.5	153.8	154.1	154.4	154.7	155.0	155.3	155.6	155.9	156.2	156.5	156.8	157.1	157.4	157.7	158.0	158.3	158.6	158.9	159.2	159.5	159.8	160.1	160.4	160.7	161.0	161.3	161.6	161.9	162.2	162.5	162.8	163.1	163.4	163.7	164.0	164.3	164.6	164.9	165.2	165.5	165.8	166.1	166.4	166.7	167.0	167.3	167.6	167.9	168.2	168.5	168.8	169.1	169.4	169.7	170.0	170.3	170.6	170.9	171.2	171.5	171.8	172.1	172.4	172.7	173.0	173.3	173.6	173.9	174.2	174.5	174.8	175.1	175.4	175.7	176.0	176.3	176.6	176.9	177.2	177.5	177.8	178.1	178.4	178.7	179.0	179.3	179.6	179.9	180.2	180.5	180.8	181.1	181.4	181.7	182.0	182.3	182.6	182.9	183.2	183.5	183.8	184.1	184.4	184.7	185.0	185.3	185.6	185.9	186.2	186.5	186.8	187.1	187.4	187.7	188.0	188.3	188.6	188.9	189.2	189.5	189.8	190.1	190.4	190.7	191.0	191.3	191.6	191.9	192.2	192.5	192.8	193.1	193.4	193.7	194.0	194.3	194.6	194.9	195.2	195.5	195.8	196.1	196.4	196.7	197.0	197.3	197.6	197.9	198.2	198.5	198.8	199.1	199.4	199.7	200.0	200.3	200.6	200.9	201.2	201.5	201.8	202.1	202.4	202.7	203.0	203.3	203.6	203.9	204.2	204.5	204.8	205.1	205.4	205.7	206.0	206.3	206.6	206.9	207.2	207.5	207.8	208.1	208.4	208.7	209.0	209.3	209.6	209.9	210.2	210.5	210.8	211.1	211.4	211.7	212.0	212.3	212.6	212.9	213.2	213.5	213.8	214.1	214.4	214.7	215.0	215.3	215.6	215.9	216.2	216.5	216.8	217.1	217.4	217.7	218.0	218.3	218.6	218.9	219.2	219.5	219.8	220.1	220.4	220.7	221.0	221.3	221.6	221.9	222.2	222.5	222.8	223.1	223.4	223.7	224.0	224.3	224.6	224.9	225.2	225.5	225.8	226.1	226.4	226.7	227.0	227.3	227.6	227.9	228.2	228.5	228.8	229.1	229.4	229.7	230.0	230.3	230.6	230.9	231.2	231.5	231.8	232.1	232.4	232.7	233.0	233.3	233.6	233.9	234.2	234.5	234.8	235.1	235.4	235.7	236.0	236.3	236.6	236.9	237.2	237.5	237.8	238.1	238.4	238.7	239.0	239.3	239.6	239.9	240.2	240.5	240.8	241.1	241.4	241.7	242.0	242.3	242.6	242.9	243.2	243.5	243.8	244.1	244.4	244.7	245.0	245.3	245.6	245.9	246.2	246.5	246.8	247.1	247.4	247.7	248.0	248.3	248.6	248.9	249.2	249.5	249.8	250.1	250.4	250.7	251.0	251.3	251.6	251.9	252.2	252.5	252.8	253.1	253.4	253.7	254.0	254.3	254.6	254.9	255.2	255.5	255.8	256.1	256.4	256.7	257.0	257.3	257.6	257.9	258.2	258.5	258.8	259.1	259.4	259.7	260.0	260.3	260.6	260.9	261.2	261.5	261.8	262.1	262.4	262.7	263.0	263.3	263.6	263.9	264.2	264.5	264.8	265.1	265.4	265.7	266.0	266.3	266.6	266.9	267.2	267.5	267.8	268.1	268.4	268.7	269.0	269.3	269.6	269.9	270.2	270.5	270.8	271.1	271.4	271.7	272.0	272.3	272.6	272.9	273.2	273.5	273.8	274.1	274.4	274.7	275.0	275.3	275.6	275.9	276.2	276.5	276.8	277.1	277.4	277.7	278.0	278.3	278.6	278.9	279.2	279.5	279.8	280.1	280.4	280.7	281.0	281.3	281.6	281.9	282.2	282.5	282.8	283.1	283.4	283.7	284.0	284.3	284.6	284.9	285.2	285.5	285.8	286.1	286.4	286.7	287.0	287.3	287.6	287.9	288.2	288.5	288.8	289.1	289.4	289.7	290.0	290.3	290.6	290.9	291.2	291.5	291.8	292.1	292.4	292.7	293.0	293.3	293.6	293.9	294.2	294.5	294.8	295.1	295.4	295.7	296.0	296.3	296.6	296.9	297.2	297.5	297.8	298.1	298.4	298.7	299.0	299.3	299.6	299.9	300.2	300.5	300.8	301.1	301.4	301.7	302.0	302.3	302.6	302.9	303.2	303.5	303.8	304.1	304.4	304.7	305.0	305.3	305.6	305.9	306.2	306.5	306.8	307.1	307.4	307.7	308.0	308.3	308.6	308.9	309.2	309.5	309.8	310.1	310.4	310.7	311.0	311.3	311.6	311.9	312.2	312.5	312.8	313.1	313.4	313.7	314.0	314.3	314.6	314.9	315.2	315.5	315.8	316.1	316.4	316.7	317.0	317.3	317.6	317.9	318.2	318.5	318.8	319.1	319.4	319.7	320.0	320.3	320.6	320.9	321.2	321.5	321.8	322.1	322.4	322.7	323.0	323.3	323.6	323.9	324.2	324.5	324.8	325.1	325.4	325.7	326.0	326.3	326.6	326.9	327.2	327.5	327.8	328.1	328.4	328.7	329.0	329.3	329.6	329.9	330.2	330.5	330.8	331.1	331.4	331.7	332.0	332.3	332.6	332.9	333.2	333.5	333.8	334.1	334.4	334.7	335.0	335.3	335.6	335.9	336.2	336.5	336.8	337.1	337.4	337.7	338.0	338.3	338.6	338.9	339.2	339.5	339.8	340.1	340.4	340.7	341.0	341.3	341.6	341.9	342.2	342.5	342.8	343.1	343.4	343.7	344.0	344.3	344.6	344.9	345.2	345.5	345.8	346.1	346.4	346.7	347.0	347.3	347.6	347.9	348.2	348.5	348.8	349.1	349.4	349.7	350.0	350.3	350.6	350.9	351.2	351.5	351.8	352.1	352.4	352.7	353.0	353.3	353.6	353.9	354.2	354.5	354.8	355.1	355.4	355.7	356.0	356.3	356.6	356.9	357.2	357.5	357.8	358.1	358.4	358.7	359.0	359.3	359.6	359.9	360.2	360.5	360.8	361.1	361.4	361.7	362.0	362.3	362.6	362.9	363.2	363.5	363.8	364.1	364.4	364.7	365.0	365.3	365.6	365.9	366.2	366.5	366.8	367.1	367.4	367.7	368.0	368.3	368.6	368.9	369.2	369.5

**Table 3.2.3.D.**

Forming Part of Sentence 3.2.3.17.(6)

Occupancy Classification	Location of Products of Combustion Detectors on Enclosed Court Walls		Maximum Spacing of Products of Combustion Detectors on Enclosed Court Ceilings, m centres
	Vertical Location	Maximum Horizontal Spacing, m	
Group C	Near ceiling Near midheight Near floor	4.57	4.57
Group A, Div 2 and Group D	Near ceiling Near midheight Near floor	7.62	7.62
Group E	Near ceiling Near level of every adjoining floor	4.57	4.57

**Table 3.2.5.A.**

Forming Part of Sentence 3.2.5.4.(1)

Occupancy Classification	Unsprinklered Maximum Building Area, m <sup>2</sup>			Sprinklered 3 storeys or less in building height or 13.7 m or less in height above grade
	1 storey	2 storeys	3 storeys	
A	2 320	1 860	1 390	Not Required
B (except hospitals)	1 860	1 390	929	
Hospitals	465	465	465	
C	1 860	1 390	929	
D	3 720	2 790	1 860	
E <sup>(1)</sup>	Not Required	Not Required	Not Required	
F-1	929	929	929	
F-2	1 860	1 390	929	
F-3	2 790	1 860	929	

**Note to Table 3.2.5.A.**<sup>(1)</sup> Group E occupancies over 1 390 m<sup>2</sup> in building area or over 3 storeys must be sprinklered as required in Subsection 3.2.2.

TABLE 3.2.6.A.

Forming Part of Sentence 3.2.6.5.(3)

Minimum Size in m<sup>2</sup> of Vent Opening<sup>(1)</sup> into Smoke Shaft Excluding Elevator Shafts from Each Floor Area

Floor Area m <sup>2</sup>	Leakage Area	Building Height, m								
		18.3	36.6	73.2	110	146	183	219	256	293
186	0%	0.093	0.102	0.121	0.139	0.149	0.167	0.177	0.186	0.195
465		0.204	0.232	0.269	0.297	0.325	0.353	0.372	0.390	0.409
929		0.399	0.446	0.502	0.548	0.595	0.632	0.669	0.697	0.725
1 860		0.771	0.845	0.938	1.01	1.09	1.15	1.21	1.26	1.31
2 790		1.13	1.24	1.37	1.45	1.56	1.64	1.71	1.78	1.85
3 720		1.50	1.63	1.77	1.86	2.02	2.11	2.20	2.29	2.37
4 650		1.86	2.02	2.18	2.30	2.46	2.56	2.68	2.79	2.88
5 570		2.22	2.40	2.58	2.72	2.90	3.02	3.15	3.27	3.36
186	1%	0.093	0.111	0.139	0.177	0.214	0.260	0.325	0.409	0.530
465		0.214	0.251	0.319	0.381	0.455	0.539	0.650	0.790	0.985
929		0.409	0.474	0.576	0.678	0.808	0.948	1.12	1.35	1.64
1 860		0.790	0.910	1.08	1.25	1.47	1.70	1.98	2.34	2.79
2 790		1.17	1.33	1.56	1.79	2.09	2.40	2.79	3.26	3.85
3 720		1.55	1.75	2.03	2.33	2.69	3.08	3.56	4.13	4.86
4 650		1.92	2.16	2.51	2.85	3.29	3.74	4.31	5.00	5.84
5 570		2.30	2.57	2.97	3.36	3.87	4.40	5.04	5.83	6.80
186	2%	0.093	0.121	0.167	0.232	0.353	0.576	1.24	4.53	89.34
465		0.233	0.269	0.372	0.492	0.706	1.08	2.02	5.95	93.96
929		0.427	0.511	0.678	0.883	1.23	1.80	3.12	8.01	101.06
1 860		0.818	0.975	1.25	1.62	2.18	3.10	5.08	11.64	114.77
2 790		1.22	1.43	1.82	2.31	3.09	4.31	6.88	14.93	128.02
3 720		1.61	1.88	2.38	2.99	3.97	5.48	8.61	18.08	140.26
4 650		2.00	2.32	2.92	3.67	4.83	6.62	10.27	21.00	152.59
5 570		2.39	2.76	3.47	4.33	5.68	7.75	11.91	24.01	164.25
186	3%	0.102	0.130	0.204	0.353	0.845	6.76			
465		0.232	0.288	0.437	0.715	1.51	8.71			
929		0.437	0.548	0.808	1.25	2.47	11.59			
1 860		0.855	1.05	1.50	2.26	4.22	16.74			
2 790		1.26	1.53	2.16	3.21	5.85	21.45			
3 720		1.66	2.03	2.82	4.15	7.44	25.95			
4 650		2.07	2.50	3.47	5.07	8.97	30.33			
5 570		2.47	2.98	4.11	5.98	10.49	34.58			
186	4%	0.102	0.139	0.260	0.669	24.62				
465		0.232	0.316	0.548	1.26	28.77				
929		0.455	0.595	0.994	2.15	35.18				
1 860		0.883	1.13	1.84	3.75	46.89				
2 790		1.31	1.66	2.66	5.29	57.79				
3 720		1.73	2.18	3.46	6.77	68.08				
4 650		2.15	2.70	4.25	8.24	78.13				
5 570		2.56	3.22	5.04	9.68	87.76				
Col. 1	2	2	3	4	5	6	8	9	10	11

(Cont'd)

Table 3.2.6.A. (Cont'd)

Floor Area m <sup>2</sup>	Leakage	Building Height, m								
		18.3	36.6	73.2	110	146	183	219	256	293
186	5%	0.102	0.149	0.344	3.25					
465		0.242	0.344	0.715	4.91					
929		0.474	0.641	1.29	7.34					
1 860		0.920	1.24	2.38	11.72					
2 790		1.36	1.81	3.42	15.84					
3 720		1.79	2.38	4.44	19.81					
4 650		2.23	2.95	5.45	23.67					
5 570		2.67	3.50	6.46	27.43					
Col. 1	2	3	4	5	6	7	8	9	10	11

Table 3.2.8.A.

Forming Part of Sentence 3.2.8.1.(2)

Room or Space	lx
Storage rooms	54
Service rooms and laundry area	215
Storage garages	54
Public water closet rooms	108
Stairways	108
Service hallways	54
Recreation rooms	108
Column 1	2



Table 4.1.6.A.

Forming Part of Sentence 4.1.6.3.(1)

Use of Area of Floor or Roof	Minimum Design Load kN/m <sup>2</sup>
Assembly areas, with fixed seats covering at least 80% of the assembly area and including: Auditoria Churches Classrooms (also without fixed seats) Courtrooms Lecture Halls Theatres and other areas with similar uses	2.39
Assembly areas other than those listed above, including: Arenas Balconies Churches Dance Floors Dining Areas and Restaurants Foyers and Entrance Halls Grandstands, reviewing stands and bleachers Gymnasias Museums Passenger Stations Promenades Rinks Stadia Stages Theatres and other areas with similar uses	4.79
Attics having limited accessibility so that there is no storage of equipment or material	0.48
Balconies, exterior and interior, and mezzanines	4.79
Corridors and Lobbies	4.79
All lobbies Corridors serving schools, colleges and hospitals First floor corridors Corridors serving assembly areas and recreational areas Other corridors	not less than the design load required for the occupancies they serve
Column 1	2

(Cont'd)

Table 4.1.6.A. (Cont'd)

Use of Area of Floor or Roof	Minimum Design Load kN/m <sup>2</sup>
Equipment areas and service rooms including: Generator rooms Mechanical equipment exclusive of elevators Machine rooms Pump rooms Transformer vaults Ventilating, air conditioning	3.59 <sup>(1)</sup>
Exits and Fire Escapes	4.79
Factories	5.99 <sup>(1)</sup>
Garages	
Passenger cars	2.39
Unloaded buses and light trucks	5.99
Loaded buses and trucks and all other trucking spaces	12.0
Kitchens (other than residential)	4.79
Libraries	
Stack rooms	7.18
Reading and study rooms	2.87
Manufacturing and Repair areas	4.79
Office areas in office buildings and other buildings (not including record storage and computer rooms) located in	
Basement and first floor	4.79
Floors above first floor	2.39
Operating rooms, laboratories	3.59
Projection rooms	4.79
Recreation areas that cannot be used for assembly purposes including:	
Billiard rooms	3.59
Bowling alleys	3.59
Swimming pools	3.59 <sup>(1)</sup>
Residential areas in	
Apartments	1.92
Dormitories	
Hospital wards	
Hotels	
Motels	
Penal institutions	
Retail and wholesale areas	4.79
Column 1	2

(Cont'd)



**Table 4.1.6.A. (Concl'd)**

Use of Area of Floor or Roof	Minimum Design Load kN/m <sup>2</sup>
Roofs (for roof snow loads see Article 4.1.7.1.)	0.96 <sup>(2)</sup>
Sidewalks and driveways over areaways and basements	12.0
Storage areas	
General storage	4.79 <sup>(1)</sup>
Locker rooms in residential occupancies	2.39
Toilet areas other than residential	2.39
Underground structures with earth cover	(1)
Warehouses (see Storage areas)	4.79 <sup>(1)</sup>
Column 1	2

**Table 4.1.6.B.**

Forming Part of Article 4.1.6.4.

Area of Floor or Roof	Minimum Concentrated Load kN
Roof surfaces	1.33
Classrooms	4.45
Floors of offices, manufacturing buildings, hospital wards, stages and pedestrian bridges	8.90
Floors and areas used by passenger cars	11.1
Floors and areas used by vehicles not exceeding 3 630 kg gross mass	17.8
Floors and areas used by vehicles exceeding 3 630 kg but not exceeding 9 070 kg gross mass	35.6
Floors and areas used by vehicles exceeding 9 070 kg gross mass	(1)
Driveways and sidewalks over areaways and basements	53.4 <sup>(1)</sup>
Column 1	Column 2

**Table 4.1.8.A.**

Forming Part of Sentence 4.1.8.1.(4)

Height, m	Exposure Factor $C_e$
0 to 12.2	1.0
over 12.2 to 18.3	1.1
over 18.3 to 27.4	1.2
over 27.4 to 39.6	1.3
over 39.6 to 57.9	1.4
over 57.9 to 82.3	1.5
over 82.3 to 128	1.6
over 128 to 226	1.8
over 226 to 366	2.0
Column 1	2

**Table 4.1.9.B.**

Forming Part of Sentence 4.1.9.1.(9) and (9A)

Type and Depth of Soil. See Sentence 4.1.9.1.(9A)	F
Rock, dense and very dense coarse-grained soils, very stiff and hard fine-grained soils; compact coarse-grained soils and firm and stiff fine-grained soils with a depth of less than 15.2 m	1.0
Compact coarse-grained soils, firm and stiff fine-grained soils with a depth greater than 15.2 m; very loose and loose coarse-grained soils and very soft and soft fine-grained soils from 0 to 15.2 m deep.	1.3
Very loose and loose coarse-grained soils, very soft and soft fine-grained soils with depths greater than 15.2 m.	1.5 <sup>(1)</sup>
Column 1	2

**Note to Table 4.1.9.B.**

<sup>(1)</sup> Where soil deposits are deeper than 91.4 m, amplification factors greater than those given in the table may arise in the case of tall buildings.

**Table 4.1.9.C.**

- Category 4 less than 3.05 m  
 Category 5 more than 3.05 m

**Table 4.2.1.A.**

Forming Part of Article 4.2.1.7.

Consistency	Description	Approximate undrained shear strength, kN/m <sup>2</sup>
“very stiff”	impossible to indent with the thumb but readily indented with the thumbnail,	Over 95.8
“stiff”	difficult to indent with the thumb; with difficulty it can be remoulded by hand,	47.9 to 95.8
“firm”	can be indented by moderate thumb pressure,	23.9 to 47.9
“soft”	can be penetrated several inches with the thumb,	12.0 to 23.9
“very soft”	can easily be penetrated several inches by the fist.	less than 12.0
Column 1	Column 2	Column 3

**Table 4.2.3.A.**

Forming Part of Sentence 4.2.3.3.(2)

Soil Type	Design Bearing Pressure kN/m <sup>2</sup>	Slope Horizontal: Vertical
Cohesive soil	192 or more	1:1
Cohesive soil	96 or less	2:1
Non-cohesive soil	192 or more	1.5:1
Non-cohesive soil (wet)	192 or more	3:1

**Table 4.2.4.A.**

Forming Part of Clause 4.2.4.2.(1)(b)

Type and Condition of Soil or Rock	Design Bearing (1), (3), (4) Pressure, kN/m <sup>2</sup>
Cohesionless soils (see Articles 4.2.1.4. and 4.2.1.5.)	
Dense sand, dense sand and gravel	287
Compact sand, compact sand and gravel	144
Loose sand, loose sand and gravel	48
Very loose sand, very loose sand and gravel	See Sentences 4.2.3.1.(1) & (2)
Cohesive soils (see Articles 4.2.1.6. and 4.2.1.7.)	
Dense silt	144
Compact silt	96
Loose silt	See Sentences 4.2.3.1.(1) & (2)
Very stiff clay	287
Stiff clay	144
Firm clay	72
Soft clay	36
Very soft clay	See Sentences 4.2.3.1.(1) & (2)
Miscellaneous soils and rock (see Article 4.2.1.9.)	
Till, dense or hard	383
Till, compact or firm	144
Till, soft	See Sentences 4.2.3.1.(1) & (2)
Cemented sand and gravel	479
Clay shale } Filled Ground }	See Sentences 4.2.3.1.(1) & (2)
Rock (see Article 4.2.1.10.)	Up to 958
Without defects	See Sentences 4.2.3.1.(1) & (2)
With defects	
Column 1	Column 2

**Table 4.2.5.A.**

Forming Part of Article 4.2.5.15.(1)

Material	Type of Pile	Maximum allowable stress in compression
Timber	Unsawn (a) Douglas fir or other woods of comparable strength <sup>(2)</sup> (b) Jack pine, lodgepole pine, or other woods of comparable strength <sup>(2)</sup> (c) Red pine or other woods of comparable strength <sup>(2)</sup>	8.27 MPa parallel to grain 6.89 MPa parallel to grain 5.17 MPa parallel to grain

**Table 4.4.2.A.**

Forming Part of Sentence 4.4.2.1.(2)

ABSORPTION AND STRENGTH REQUIREMENTS	
Maximum Absorption After 48 Hr Submersion in Water of 28-Day-Old Specimens, Per Cent of Dry Weight	Minimum Compressive Strength After 28 Days, MPa
6	44.8
Column 1	2

**Table 4.4.2.B.**

Forming Part of Sentence 4.4.2.15.(1)

Type of Mortar	Minimum Average Compressive Strength at 28 Days, MPa	Composition in Parts by Volume			
		Portland Cement	Masonry Cement	Lime	Aggregate
M	17.2	1	1 (type H)	none	Not less than 2¼ and not more than 3 times the sum of the volumes of the cement and lime used.
		1	none	¼	
S	12.4	½	1 (type H)	none	
		1	none	over ¼ to ½	
N	5.17	none	1 (type H)	none	
		1	none	over ½ to 1¼	
O	2.41	none	1 (type H or L)	none	
		1	none	over 1¼ to 2½	
K	0.517	none	none	1	
		1	none	over 2½ to 4	
Col. 1	2	3	4	5	6

**Table 4.4.3.B.**

Forming Part of Sentence 4.4.3.6.(9)

Compressive Strength of Units, MPa	Ultimate Compressive Strength of Brick Masonry ( $f'_m$ ), MPa <sup>(1)</sup>		
	Type M Mortar	Type S Mortar	Type N Mortar
96.5 plus	31.7	26.9	22.1
82.7	27.6	23.4	19.3
68.9	23.4	20.0	16.5
55.2	19.3	16.5	13.9
41.4	15.2	13.1	11.0
27.6	11.0	9.65	8.27
13.8	6.89	5.52	5.52
Column 1	2	3	4

**Table 4.4.3.C**

Forming Part of Sentence 4.4.3.6.(10)

Compressive Strength of Units, <sup>(1)</sup> MPa	Ultimate Compressive Strength of Concrete Block Masonry or Structural Clay Tile Masonry ( $f'_m$ ), MPa	
	Types M and S Mortar	Type N Mortar
41.4 plus	16.5	8.62
27.6	13.8	8.62
17.2	10.7	7.24
13.8	9.31	6.55
10.3	7.93	5.52
Column 1	2	3

Table 4.4.3.D.

Forming Part of Article 4.4.3.11.(1)

MAXIMUM ALLOWABLE STRESSES IN PLAIN BRICK MASONRY		
Type of Stress or Modulus	Designation	Maximum Allowable Stress or Modulus kPa
Compressive, axial		
Walls	$f_m$	$0.25 f'_m$
Columns	$f_m$	$0.20 f'_m$
Compressive, flexural		
Walls	$f_m$	$0.32 f'_m$
Columns	$f_m$	$0.26 f'_m$
Tensile, flexural		
Normal to bed joints		
M or S mortar	$f_t$	248
N mortar	$f_t$	193
Parallel to bed joints		
M or S mortar	$f_t$	496
N mortar	$f_t$	386
Shear		
M or S mortar	$v_m$	$\sqrt{f'_m}$ but not to exceed 345
N mortar	$v_m$	$\sqrt{f'_m}$ but not to exceed 241
Bearing on masonry	$f_b$	$0.25 f'_m$
Modulus of elasticity	$E_m$	$1,000 f'_m$ but not to exceed 20.7 GPa
Modulus of rigidity	$E_v$	$400 f'_m$ but not to exceed 8.27 GPa
Column 1	2	3

Table 4.4.3.E

Forming Part of Article 4.4.3.12.(1)

MAXIMUM ALLOWABLE STRESSES AND MODULI FOR PLAIN CONCRETE BLOCK MASONRY AND STRUCTURAL CLAY TILE MASONRY			
Type of Stress or Modulus	Designation	Maximum Allowable Stress or Modulus, kPa	
		Units Without Voids or Filled Hollow Units Based on Gross Cross- Sectional Area	Units with Voids Based on Net Cross- Sectional Area
Compressive, axial			
Walls	$f_m$	$0.20 f'_m$	$0.225 f'_m$
Columns	$f_m$	$0.18 f'_m$	$0.20 f'_m$
Compressive, flexural			
Walls	$f_m$	$0.30 f'_m$	$0.30 f'_m$
Columns	$f_m$	$0.24 f'_m$	$0.24 f'_m$
Tensile, flexural			
Normal to bed joints			
M or S mortar	$f_t$	248	159
N mortar	$f_t$	193	110
Parallel to bed joints			
M or S mortar	$f_t$	496	317
N mortar	$f_t$	386	221
Shear			
M or S mortar	$v_m$	234	234
N mortar	$v_m$	159	159
Bearing on masonry	$f_b$	$0.25 f'_m$	$0.25 f'_m$
Modulus of elasticity	$E_m$	$1000 f'_m$ but not to exceed 20.7 GPa	$1000 f'_m$ but not to exceed 20.7 GPa
Modulus of rigidity	$E_v$	$400 f'_m$ but not to exceed 8.72 GPa	$400 f'_m$ but not to exceed 8.27 GPa
Column 1	2	3	4



Table 4.4.3.F.

Forming Part of Article 4.4.3.13.(1)(2)

MAXIMUM ALLOWABLE STRESSES IN REINFORCED BRICK MASONRY		
Type of Stress or Modulus	Designation	Maximum Allowable Stress or Modulus, kPa
Compressive, axial		
Walls	$f_m$	$0.25 f'_m$
Columns	$f_m$	$0.20 f'_m$
Compressive, flexural		
Walls and beams	$f_m$	$0.40 f'_m$
Columns	$f_m$	$0.32 f'_m$
Shear		
No shear reinforcement		
Flexural members	$v_m$	$0.7 \sqrt{f'_m}$ but not to exceed 345
Shear walls	$v_m$	$0.5 \sqrt{f'_m}$ but not to exceed 690
With shear reinforcement		
taking entire shear		
Flexural members	$v$	$2.0 \sqrt{f'_m}$ but not to exceed 827
Shear walls	$v$	$1.5 \sqrt{f'_m}$ but not to exceed 1 030
Bond		
Plain bars	$u$	552
Deformed bars	$u$	1 100
Bearing	$f_b$	$0.25 f'_m$
Modulus of elasticity	$E_m$	$1000 f'_m$ but not to exceed 20.7 GPa
Modulus of rigidity	$E_v$	$400 f'_m$ but not to exceed 8.27 GPa
Column 1	1	3

**Table 4.4.3.G.**

Forming Part of Article 4.4.3.14.(1)(2)

MAXIMUM ALLOWABLE STRESSES IN REINFORCED CONCRETE BLOCK AND STRUCTURAL CLAY TILE MASONRY		
Type of Stress or Modulus	Designation	Maximum Allowable Stress or Modulus kPa
Compressive, axial		
Walls	$f_m$	$0.225 f'_m$
Columns	$f_m$	$0.20 f'_m$
Compressive, flexural		
Walls and beams	$f_m$	$0.33 f'_m$
Columns	$f_m$	$0.28 f'_m$
Shear		
No shear reinforcement		
Flexural members	$v_m$	$0.02 f'_m$ but not to exceed 345
Shear walls	$v_m$	$0.015 f'_m$ but not to exceed 345
With shear reinforcement taking entire shear		
Flexural members	$v$	$0.05 f'_m$ but not to exceed 1 030
Shear walls	$v$	$0.04 f'_m$ but not to exceed 517
Bond		
Plain bars	$u$	552
Deformed bars	$u$	1 110
Bearing on masonry	$f_b$	$0.25 f'_m$
Modulus of elasticity	$E_m$	$1\,000 f'_m$ but not to exceed 20.7 GPa
Modulus of rigidity	$E_v$	$400 f'_m$ but not to exceed 8.27 GPa
Column 1	2	3

**Table 4.4.3.H.**

Forming Part of Article 4.4.3.17.(1)

MAXIMUM ALLOWABLE SHEAR ON BOLTS AND ANCHORS		
Diameter of Bolt or Anchor, mm	Minimum Embedment, mm	Maximum Allowable Shear, kN
6.35	102	1.20
9.53	102	1.82
12.7	102	2.45
15.9	102	3.33
19.0	127	4.89
22.2	152	6.67
25.4	178	8.23
28.6	203	10.0
Column 1	2	3

**Table 4.4.4.A.**

Forming Part of Sentence 4.4.4.3.(1)

Type of Masonry	Type of Masonry Units	Max. Allowable Compressive Stress, MPa				
		Type of Mortar <sup>(1)</sup>				
		M	S	N	O	K
Solid Masonry	Rubble stone	0.96	0.83	0.69	0.55	—
	Ashlar granite	5.52	4.96	4.41	3.45	—
	Ashlar limestone and marble	3.45	3.10	2.76	2.24	—
	Ashlar sandstone and cast-stone	2.76	2.48	2.21	1.72	—
	Solid units, except concrete block, with an ultimate compressive strength of over 68.9 MPa	3.45	3.10	2.41	1.72	0.69
	55.2 MPa to 68.9 MPa	2.76	2.41	2.07	1.72	0.69
	31.0 MPa to 55.2 MPa	1.72	1.55	1.38	1.03	0.69
	17.2 MPa to 31.0 MPa	1.21	1.10	0.96	0.96	0.52
	10.3 MPa to 17.2 MPa	0.86	0.79	0.69	0.52	0.34
	Solid concrete block over 19.0 MPa to 27.6 MPa	1.72	1.55	1.38	1.03	—
	12.4 MPa to 19.0 MPa	1.21	1.10	0.96	0.69	—
	8.27 MPa to 12.4 MPa	0.86	0.79	0.69	0.52	—
	Hollow load bearing units over 6.89 MPa to 9.65 MPa	0.69	0.62	0.59	—	—
	4.83 MPa to 6.89 MPa	0.59	0.52	0.48	—	—
Cavity walls	Solid units, except concrete block, with an ultimate compressive strength of over 17.2 MPa	0.96	0.90	0.76	—	—
	10.3 to 17.2	0.69	0.62	0.55	—	—
	Solid concrete block over 12.4 MPa	0.96	0.90	0.76	—	—
	8.27 MPa to 12.4 MPa	0.69	0.62	0.55	—	—
	Hollow load bearing units	0.48	0.41	0.38	—	—
Col. 1	2	3	4	5	6	7



**Table 5.2.1.A.**

Forming Part of Article 5.2.1.1.

Group	Type
Government and Office	Government buildings to which the public is normally admitted. Office buildings exceeding 557 m <sup>2</sup> in building area or exceeding 3 storeys in building height.
Retail Commercial	Supermarkets Shopping Malls
Residential	Hotels—lobby floor, conference and meeting rooms and elevators. Apartment buildings—lobby floor and elevators of all such buildings exceeding 557 m <sup>2</sup> in building area or exceeding 3 storeys in building height.

Table 6.1.4.A.

Forming Part of Article 6.1.4.1.

SUBSTITUTION OF MILLIMETRES FOR GAUGE NUMBERS IN THE DESIGNATION OF MINIMUM SHEET METAL THICKNESSES <sup>1</sup>				
Gauge No.	Minimum Thickness of Sheet Metal, mm			
	Galvanized Sheet Gauge (GSG)	Manufacturers' Standard Gauge (MSG) uncoated steel	United States Standard Gauge (USSG) stainless steel	Brown & Sharpe Gauge (B&SG) aluminum alloy sheets up to 2.13 m in width
	ASTM A525-71	ASTM A568-72	ASTM A167-70	ASTM B209-73
6	—	4.674	—	3.708
7	—	4.343	—	3.251
8	4.039	3.962	4.013	2.921
9	3.658	3.607	3.607	2.692
10	3.277	3.226	3.277	2.388
11	2.896	2.845	2.921	2.134
12	2.515	2.464	2.540	1.880
13	2.134	2.083	2.184	1.651
14	1.778	1.702	1.803	1.448
15	1.651	1.524	1.626	1.270
16	1.473	1.346	1.448	1.118
17	1.346	1.194	1.295	0.991
18	1.194	1.092	1.143	0.864
19	1.041	0.965	0.991	0.762
20	0.914	0.838	0.864	0.660
21	0.838	0.762	0.762	0.584
22	0.762	0.686	0.686	0.533
23	0.686	0.610	0.610	0.483
24	0.610	0.533	0.559	0.406
25	0.533	0.457	0.483	0.356
26	0.483	0.406	0.406	0.305
27	0.432	0.356	0.356	0.279
28	0.406	0.330	0.356	0.229
29	0.356	—	0.305	0.203
30	0.330	—	0.279	0.203
Column 1	2	3	4	5

**Table 6.2.5.A.**

Forming Part of Article 6.2.5.5.

Minimum Clearances between Combustible Material and Furnaces and Boilers Using Solid Fuel				
Type of Furnace or Boiler	Minimum Clearance, mm			
	Above and Sides of Bonnet or Plenum	Jacket Sides and Rear	Front	Projecting Flue Collar
Automatically stoker fired, forced air furnace, equipped with 121°C temperature high limit control and barometric draft control.	152	152	1 220	6.2.8.9.(5)
Steam boilers limited to max. gauge pressure of 103 kPa	152	152	1 220	6.2.8.9.(5)
Hot water boilers limited to 121°C max. of the waterwall type or having a jacket or lining of masonry or other insulating material.	152	152	1 220	6.2.8.9.(5)
Hot water boilers and forced air furnaces not limited to 121°C max.	457	457	1 220	6.2.8.9.(5)
Steam boilers limited between a gauge pressure of 103 kPa and 345 kPa.	457	457	1 220	6.2.8.9.(5)
Steam boilers not limited to max. gauge pressure of 345 kPa but not over 117 kW rated heat input.	457	457	1 220	6.2.8.9.(5)
Other boilers and forced air furnaces.	914	914	2 440	914
Column 1	2	3	4	5

**Table 6.2.5.B.**

Forming Part of Article 6.2.5.5.

Minimum Clearances, mm, between Combustible Material with Specified Forms of Protection and Furnaces and Boilers Using Solid Fuel				
Minimum Protection	Minimum clearances of 457 mm and 152 mm in Table 6.2.4.A. may be reduced to			
	Above and Sides of Bonnet or Plenum	Jacket Sides and Rear	Above and Sides of Bonnet or Plenum	Jacket Sides and Rear
6.35 mm asbestos millboard spaced out 2.54 mm by noncombustible material.	381	229	76.2	50.8
0.330 mm sheet metal on 6.35 mm asbestos millboard.	305	229	76.2	50.8
0.330 mm sheet metal spaced out 25.4 mm by noncombustible material.	229	152	50.8	50.8
0.330 mm sheet metal on 3.12 mm asbestos millboard spaced out 25.4 mm by noncombustible material.	229	152	50.8	50.8
38.1 mm asbestos cement covering on heating appliances.	229	152	50.8	25.4
31.8 mm asbestos millboard on 25.4 mm mineral wool batts reinforced with wire mesh or equivalent.	152	152	50.8	50.8
0.686 mm sheet metal on 25.4 mm mineral wool batts reinforced with wire mesh or equivalent.	102	76.2	50.8	50.8
6.35 mm asbestos cement board or 6.35 mm asbestos millboard.	457	457	102	102
6.35 mm cellular asbestos.	457	457	76.2	76.2
Column 1	2	3	4	5



**Table 6.2.5.C.**

Forming Part of Article 6.2.5.9.

Minimum Clearances between Combustible Material and Stoves, Ranges, Space Heaters and Service Water Heaters Using Solid Fuel				
Appliance	Minimum Clearance, mm			
	Top	Sides	Rear	Front
Stoves, ranges and service water heaters without refractory lining.	914	914	914	1 220
Stoves, ranges and service water heaters with refractory lining.	914	610	305	1 220
Space heaters.	914	305	305	1 220
Column 1	2	3	4	5

**Table 6.2.5.D.**

Forming Part of Article 6.2.5.9.

Minimum Clearance, mm, to Combustible Material with Specified Forms of Protection For Stoves, Ranges, Space Heaters and Service Water Heaters Using Solid Fuel					
Type of Protection	Where the Minimum Clearance in Table 6.2.5.C. is				
	305 mm	457 mm	610 mm	914 mm	
	Sides and Rear	Sides	Sides	Top	Sides and Rear
6.35 mm asbestos millboard spaced out 25.4 mm by noncombustible material.	152	229	305	762	457
0.330 mm sheet metal on 6.35 mm asbestos millboard.	152	229	305	610	457
0.330 mm sheet metal spaced out 25.4 mm by noncombustible material.	102	152	203	457	305
6.35 mm asbestos millboard on 25.4 mm mineral wool batts reinforced with wire mesh or equivalent.	102	152	203	457	305
0.686 mm sheet metal on 25.4 mm mineral wool batts reinforced with wire mesh or equivalent.	50.8	102	203	457	305
Column 1	2	3	4	5	6

**Table 6.2.6.A.**

Forming Part of Article 6.2.6.5.

Steam or Water Temperature, °C	Minimum Clearance, mm
up to 121	12.7
above 121	25.4
Column 1	Column 2

**Table 6.2.8.A.**

Forming Part of Sentence 6.2.8.9.(2)

Diameter of Flue pipe, mm	Minimum Thickness of Metal, mm	
	Uncoated Steel	Galv. Steel
Below 152	0.406	0.406
152 to 203 (incl.)	0.533	0.483
Over 203 to 254	0.686	0.610
Over 254 to 305	0.838	0.762
Over 305 to 406	1.09	0.914
Over 406	1.70	1.47
Column 1	2	3

**Table 6.2.8.B.**

Forming Part of Sentence 6.2.8.9.(5), (6) and (7)

Minimum Thickness and Type of Protection	Minimum Clearance with Protection, mm
6.35 mm asbestos millboard spaced out 25.4 mm by noncombustible material.	305
0.330 mm sheet metal on 6.35 mm asbestos millboard.	305
0.330 mm sheet metal spaced out 25.4 mm by noncombustible material.	229
0.330 mm sheet metal on 3.18 mm asbestos millboard spaced out 25.4 mm by noncombustible material.	229
38.1 mm asbestos-cement or mineral wool covering on flue pipe or breeching.	229
0.686 mm sheet metal on 25.4 mm mineral wool batts reinforced with wire mesh or equivalent.	76.2
Column 1	Column 2

Table 6.7.3.A.

Forming Part of Sentence 6.7.3.1.(3)

Size of Building		Minimum Nominal Size of Piping, in.		
Building Height <sup>(1)</sup>	Building Area	Standpipe Risers <sup>(3)</sup>	From Street Main to Standpipe Riser	Lateral Extensions <sup>(2)</sup>
Less than 22.9 m or 6 Storeys	Less than 3 720 m <sup>2</sup>	2	2	2
	More than 3 720 m <sup>2</sup>	4	4	4
Over 22.9 m or 6 Storeys	Unlimited Area	6	6	6
Column 1	2	3	4	5

Notes to Table 6.7.3.A.:

- <sup>(1)</sup> A Penthouse that exceeds 46.5 m<sup>2</sup> in floor area shall be considered a storey or 3.66 m in height of building for the purpose of this Table.
- <sup>(2)</sup> Lateral Extension means piping from the first riser to the last riser.
- <sup>(3)</sup> Riser means vertical pipe supplying water to one or more fire hose cabinets.

Table 9.3.2.A.

Forming Part of Article 9.3.2.7.

CONCRETE MIXES, BY VOLUME			
Concrete Strength, MPa	Cement, part	Sand, parts	Coarse Aggregate
13.8	9	2	4 parts
	1	-	6 parts pit run gravel
17.2	1	2	3½ parts up to 38.1 mm in size
	1	-	5½ parts pit run gravel
Column 1	2	3	4

**Table 9.4.2.A.**

Forming Part of Article 9.4.2.1.

UNIFORM DESIGN LOADS FOR FLOORS	
Use of Area of Floor	Minimum Design Live Load, kN/m <sup>2</sup>
Corridors, balconies, lobbies and aisles over 1.22 m in width, except for public corridors above the first storey in residential occupancies.	4.79
Public corridors above the first storey in residential occupancies.	1.92
Corridors, balconies, lobbies and aisles 1.22 m or less in width.	Same as occupancy they serve
Mezzanines	Same as occupancy they serve
Equipment rooms	3.59 <sup>(1)</sup>
Exits	4.79
Factories	5.99 <sup>(1)</sup>
Garages	
for passenger cars	2.39
for unloaded buses and light trucks	5.99
for loaded trucks and buses and all trucking spaces	12.0
Kitchens	
other than domestic type	4.79
Office areas	
basements	4.79
other storeys	2.39
Laboratories excluding small medical and dental laboratories.	3.59
Residential occupancies	
bedrooms	1.44
all other rooms	1.92
Mercantile occupancies	
retail and wholesale areas	4.79
Driveways, sidewalks and grilles that are not supported by the ground such as those over basements and areaways and which are subject to loads from cars and trucks.	12.0
Sidewalks and grilles that are not subject to loads from cars or trucks.	4.79
Storage areas	4.79 <sup>(1)</sup>
Water closet rooms	
except in residential occupancies	2.39
Column 1	2

**Table 9.4.2.B.**

Forming Part of Article 9.4.2.1.

CONCENTRATED DESIGN LOADS FOR FLOORS	
Use of Area of Floor	Minimum Concentrated Design Load, kN
Floors of offices, manufacturing buildings	8.9
Floors and areas used by passenger cars	11.1
Floors and areas used by vehicles not exceeding 3 630 kg gross mass	17.8
Floors and areas used by vehicles exceeding 3 630 kg but not exceeding 9 070 kg gross mass	35.6
Floors and areas used by vehicles exceeding 9 070 kg gross mass	53.4
Driveways or sidewalks over basements, cellar or other open areas	53.4
Column 1	2

**Table 9.4.7.A.**

Forming Part of Article 9.4.7.2.

Type and Condition of Soil or Rock	Maximum Allowable Bearing Pressure, kN/m <sup>2</sup>
Dense sand, dense sand and gravel <sup>(1)</sup>	287
Compact sand, compact sand and gravel <sup>(1)</sup>	144
Loose sand, loose sand and gravel <sup>(1)</sup>	48
Dense silt <sup>(2)</sup>	144
Compact silt <sup>(2)</sup>	96
Very stiff clay <sup>(2)</sup>	287
Stiff clay <sup>(2)</sup>	144
Firm clay <sup>(2)</sup>	72
Soft clay <sup>(2)</sup>	36
Till, dense or hard	383
Till, compact or firm	144
Cemented sand and gravel	479
Clay shale	287
Sound rock	479
Rock with discontinuities <sup>(3)</sup>	96
Column 1	2

**Notes to Table 9.4.7.A.:**

<sup>(1)</sup> Sand, or sand and gravel may be classified by means of a picket test in which a 2 in. by 2 in. picket beveled at the end at 45 deg to a point, is pushed into the soil. Such material is classified as "dense" if a man of average weight cannot push the picket more than 38.1 mm into the soil, "compact" if the picket penetrates more than 38.1 mm but less than 203 mm into the soil and "loose" if the picket penetrates 203 mm or more.

<sup>(2)</sup> Clay and cohesive silts may be classified as "very stiff" if it is impossible to indent by thumb pressure, "stiff" if it is difficult to indent by thumb pressure, "firm" if it can be indented by moderate thumb pressure, "soft" if it can be penetrated several inches by thumb pressure, where this test is carried out on undisturbed soil in the wall of a test pit.

<sup>(3)</sup> Indicates rock containing close discontinuities or cracks infilled with soft cohesive soil.

**Table 9.5.2.A.**

Forming Part of Article 9.5.2.1.

ROOM HEIGHTS	
Room or Space	Minimum Heights
Living room or space, dining room or space, kitchen or kitchen space.	2.29 m over at least 75 per cent of the required floor area with a clear height of 2.13 m at any point over the required area.
Bedroom or bedroom space	2.29 m over at least 50 per cent of the required floor area or 2.13 m over all of the required floor area. Any part of the floor having a clear height of less than 1.37 m shall not be considered in computing the required floor area.
Unfinished basement or cellar including laundry area therein.	1.93 m under beams, ducts or pipes in laundry areas and in any location that would normally be used, for passage to laundry and required storage areas.
Bathroom, water-closet room or laundry area above grade.	2.13 m in any area where a person would normally be in a standing position.
Passage, hall or main entrance vestibule and finished rooms not specifically mentioned above.	2.13 m
Column 1	2

**Table 9.6.3.A.**

Forming Part of Article 9.6.3.1.

MINIMUM SIZE OF DOORS		
At Entrance to	Width, mm	Height, mm
Dwelling unit (required entrance) Vestibule or entrance hall	813	2 030
Stairs to a floor level that contains a finished space. All doors in at least one line of passage from the exterior to the basement Utility rooms	813	1 980
Walk-in closet Where 711 mm hallways are permitted Bathroom, water-closet room, shower room	610	1 980
Rooms not mentioned above, exterior balconies	762	1 980
Column 1	2	3

**Table 9.6.5.A.**

Forming Part of Article 9.6.5.1.

GLASS SIZE FOR DOORS	
Minimum Glass Thickness mm	Maximum Perimeter, mm
2.1	2 032
2.9	3 050
4.0	4 060
4.8	4 570
5.5	not limited
Column 1	2

**Table 9.7.2.A.**Unobstructed Glass Area 0.372 m<sup>2</sup>**Table 9.7.4.A.**

Forming Part of Article 9.7.4.2.

MAXIMUM GLASS SIZE FOR VARIOUS THICKNESSES			
Minimum Glass Thickness of Inner and Outer Panes, mm	Sash Type or Fixed Glazing	Factory-sealed Double Glazing	
		Fused Edges	Other than Fused Edges
2.1	3 050 mm perimeter	4 570 mm perimeter	3 810 mm perimeter
2.9	4 270 mm perimeter	6 400 mm perimeter	5 330 mm perimeter
4.0	6 100 mm perimeter	9 140 mm perimeter	7 620 mm perimeter
4.8	7 110 mm perimeter	10 670 mm perimeter	8 890 mm perimeter
5.5	4.65 m <sup>2</sup>	10.5 m <sup>2</sup>	7.25 m <sup>2</sup>
6.4	no limit	no limit	no limit
Column 1	2	3	4



**Table 9.9.3.A.**

Forming Part of Article 9.9.3.2.

MAXIMUM AREA PER PERSON TO BE ASSUMED IN CALCULATING OCCUPANT LOAD	
Occupancy or Use of Floor Area	Max. Area per Person, m <sup>2</sup>
Residential Dwelling units Dormitories	See Article 9.9.3.2. 4.65
Business and personal services Shops Offices	4.65 9.29
Mercantile Retail sales floors at grade, cellar or basement Other mercantile floors	2.79 5.58
Industrial Manufacturing or process rooms Storage garage Warehouse storage space Other storage space Aircraft hangers	4.65 46.5 27.9 46.5 46.5
Other uses Cleaning and repair Kitchens	4.65 9.29
Column 1	2

**Table 9.10.15.A.**

Forming Part of Article 9.10.15.1.

MAXIMUM PERCENTAGE OF UNPROTECTED OPENINGS IN EXTERIOR WALLS											
Maximum Area of Exposing Building Face	Limiting Distance, m										
	Less than 1.22	1.22	1.83	2.44	3.05	4.57	6.10	9.14	12.2	15.2	18.3
Up to 27.9 m <sup>2</sup>	0	8	11	17	25	54	100	—	—	—	—
28.0 m <sup>2</sup> to 37.2 m <sup>2</sup>	0	7	10	15	21	43	75	100	—	—	—
37.3 m <sup>2</sup> to 46.4 m <sup>2</sup>	0	7	10	14	19	36	62	100	—	—	—
46.5 m <sup>2</sup> to 92.9 m <sup>2</sup>	0	7	8	11	13	23	37	76	100	—	—
Over 92.9 m <sup>2</sup>	0	7	8	9	10	14	20	37	60	90	100
Column 1	2	3	4	5	6	7	8	9	10	11	12

**Table 9.12.2.A.**  
Depth of Foundation    1.22 m

**Table 9.15.3.A.**

Forming Part of Articles 9.15.3.3. and 9.15.3.4.

MINIMUM FOOTING SIZES			
No. of Floors Supported	Minimum Width of Strip Footings, mm		Minimum Area of Column <sup>(1)</sup> Footings, m <sup>2</sup>
	Supporting Exterior Walls	Supporting Interior Walls	
1	254	203	0.41
2	356	356	0.74
3	457	508	1.02
Column 1	2	3	4

**Table 9.15.4.A.**

Forming Part of Sentence 9.15.4.1.(1)

THICKNESS OF FOUNDATION WALLS			
Type of Foundation Wall	Minimum Wall Thickness, mm	Maximum Height of Finish Grade Above Basement Floor or Inside Grade	
		Foundation Wall Laterally Unsupported At the Top <sup>(1)(2)(3)(4)</sup> , m	Foundation Wall Laterally Supported At the Top <sup>(1)(2)(3)(4)</sup> , m
Solid concrete (13.8 MPa min. strength)	152	0.76	1.52
	203	1.22	2.13
	254	1.37	2.29
	305	1.52	2.29
Solid concrete (20.7 MPa min. strength)	152	0.76	1.83
	203	1.22	2.29
	254	1.37	2.29
	305	1.52	2.29
Unit masonry	152	0.61	0.61
	203	0.91	1.22
	254	1.22	1.83
	305	1.37	2.13
Column 1	2	3	4

**Notes to Table 9.15.4.A.:**

- (1) Foundation walls are considered laterally supported at the top if the joists are embedded in the top of the foundation walls or if the floor system is anchored to the top of the foundation walls with anchor bolts, in which case the joists may run either parallel or perpendicular to the foundation wall.
- (2) When a foundation wall contains an opening more than 1.22 m in length or openings in more than 25 per cent of its length, that portion of the wall beneath such openings shall be considered laterally unsupported, unless the wall around the opening is reinforced to withstand the earth pressure.
- (3) When the length of solid wall between windows is less than the average length of the windows, the combined length of such windows shall be considered as a single opening.
- (4) When foundation walls support solid masonry walls, the foundation wall is considered to be laterally supported by the first floor.

**Table 9.20.2.A.**

Forming Part of Article 9.20.2.6.

Type of Masonry Unit	Minimum Compressive Strength over Gross Area, MPa	
	Masonry Unit Exposed to Weather	Masonry Unit not Exposed to Weather
Hollow loadbearing concrete units	6.89	4.83
Solid loadbearing concrete units	12.4	8.27
Hollow non-loadbearing concrete units	6.89	2.41
Solid non-loadbearing concrete units	12.4	8.27
Solid loadbearing cellular units	Not permitted	4.83
Solid non-loadbearing cellular units	Not permitted	1.90
Column 1	2	3

**Table 9.20.9.A.**

Forming Part of Article 9.20.9.9.

VENEER TIE SPACING	
Maximum Vertical Spacing, mm	Maximum Horizontal Spacing, mm
406	813
508	610
610	406
Column 1	2

**Table 9.21.2.A.**

Forming Part of Sentence 9.21.2.4.(1)

FLUE SIZES		
Maximum Rated Input of One or More Appliances, kW	Minimum Size of Flue	
	Round	Rectangular
30.8	6-in. diam.	8 in. x 8 in. nom.
51.3	7-in. diam.	8 in. x 8 in. nom.
82.0	8-in. diam.	8 in. x 8-in. nom.
117	9-in. diam.	8 in. x 12 in. nom.
Column 1	2	3

**Table 9.21.5.A.**

Forming Part of Article 9.21.5.1.

Diameter of Flue Pipe, mm	Minimum Thickness of Metal, mm	
	Uncoated Steel	Galvanized Steel
Below 152	0.406	0.406
152 to 203 (incl.)	0.533	0.483
Over 203 to 254	0.686	0.610
Over 254 to 305	0.838	0.762
Over 305 to 406	1.092	0.914
Over 406	1.702	1.473
Column 1	2	3

**Table 9.21.6.A.**

Forming Part of Article 9.21.6.5.

CLEARANCE BETWEEN A FLUE PIPE AND PROTECTED COMBUSTIBLE MATERIAL	
Type of protection applied to the combustible material unless otherwise specified and covering all surfaces within 457 mm of the flue pipe	Clearance between flue pipe and combustible material, mm
6.35 mm asbestos millboard spaced out 25.4 mm by noncom- bustible material	305
0.33 mm sheet metal on 6.35 mm asbestos millboard.	305
0.33 mm sheet metal spaced out 25.4 mm by noncombustible material.	229
0.33 mm sheet metal on 3.18 mm asbestos millboard spaced out 25.4 mm by noncombustible material.	229
38.1 mm asbestos-cement covering on flue pipe.	229
0.686 mm sheet metal on 25.4 mm mineral wool batts reinforced with wire mesh or equivalent.	76.2
Column 1	2

Table 9.23.3.A.

Forming Part of Article 9.23.3.3.

NAILING FOR FRAMING		
Construction Detail	Minimum Length of Nails, mm	Minimum Number or Maximum Spacing of Nails
Floor joist to plate –toe nail	82	2
Wood or metal strapping to underside of floor joists	57	2
Cross bridging to joists	57	2 each end
Doubled header or trimmer joists	76	305 mm (o.c.)
Floor joist to stud (balloon construction)	76	2
Ledger strip to wood beam	82	2 per joist
Joist to joist splice (see also Table 9.23.13.A.)	76	2 at each end
Tail joist to adjacent header joist	82	5
(end nailed) around openings	101	3
Each header joist to adjacent trimmer joist	82	5
(end nailed) around openings	101	3
Stud to wall plate (each end) toe nail	63	4
or end nail	82	2
Doubled studs at openings, or studs at partition or wall intersections and corners	76	762 mm (o.c.)
Doubled top wall plates	76	610 mm (o.c.)
Bottom wall plate or sole plate to joists or blocking (exterior walls)	82	406 mm (o.c.)
Interior partitions to framing or subflooring	82	610 mm (o.c.)
Horizontal member over openings in non-loadbearing partitions –each end	82	2
Lintels to studs	82	2 at each end
Ceiling joist to plate –toe nail each end	82	2
Roof rafter, roof truss or roof joist to plate –toe nail	82	3
Rafter plate to each ceiling joist	101	2
Rafter to joist (with ridge supported)	76	3
Rafter to joist (with ridge unsupported)	76	see Table 9.23.13.A.
Gusset plate to each rafter at peak	57	4
Rafter to ridge board –toe nail	57	4
–end nail	82	3
Collar tie to rafter –each end	76	3
Collar tie lateral support to each collar tie	57	2
Jack rafter to hip or valley rafter	82	2
Roof strut to rafter	76	3
Roof strut to bearing partition –toe nail	82	2
2 by 6 or less plank decking to support	82	2
Plank decking wider than 2 by 6 to support	82	3
2-in edge laid plank decking to support (toe nail)	76	1
2-in edge laid plank to each other	76	457 mm (o.c.)
Column 1	2	3

**Table 9.23.3.B.**

Forming Part of Sentence 9.23.3.4.(1)

SHEATHING AND SUBFLOOR ATTACHMENT			
Element	Min Nail Length mm	Min Staple Length mm	Min No. or Max Spacing
7.93 mm and 9.53 mm plywood or particleboard	51	38	152 mm o.c. along edge and 305 mm o.c. along intermediate supports
12.7 mm to 19.0 mm plywood or particleboard	51	51	
22.2 mm plywood or particleboard	57	Not applicable	
11.1 mm and 12.7 mm fibreboard sheathing	44	38 Not	
12.7 mm gypsum sheathing	44	applicable	
Board lumber 8 in. or less wide	51	51	2 per support
Board lumber more than 8 in. wide	51	51	3 per support
Column 1	2	3	4

Table 9.23.10.A.

Forming Part of Article 9.23.10.6.

SIZE AND SPACING OF STUDS				
Type of Wall	Supported Loads (including dead loads)	Minimum Stud Size, in.	Maximum Stud Spacing, mm	Maximum Unsupported Height, m
Interior	No load	2 by 2 2 by 4 flat	406 406	2.44 3.66
	Limited attic storage <sup>(1)</sup>	2 by 3 2 by 4	610 610	3.05 3.66
	Full attic storage <sup>(2)</sup> or roof-load or limited attic storage <sup>(1)</sup> plus 1 floor	2 by 4	610	3.66
	Full attic storage <sup>(2)</sup> plus 1 floor or roof load plus 1 floor or limited attic storage <sup>(1)</sup> plus 2 floors	2 by 4	406	3.66
	Full attic storage <sup>(2)</sup> plus 2 floors or roof load plus 2 floors	2 by 4 3 by 4 2 by 6	305 406 406	3.66 3.66 4.27
	Full attic storage <sup>(2)</sup> plus 3 floors or roof load plus 3 floors	2 by 6	305	4.27
Exterior	Roof with or without attic storage <sup>(3)</sup>	2 by 3 2 by 4	406 610	2.44 3.05
	Roof with or without attic storage plus 1 floor	2 by 4	406	3.05
	Roof with or without attic storage plus 2 floors	2 by 4 3 by 4 2 by 6	305 406 406	3.05 3.05 3.66
	Roof with or without attic storage plus 3 floors	2 by 6	305	1.83
Column 1	2	3	\$	5

Notes to Table 9.23.10.A.:

<sup>(1)</sup>Applies to attics not accessible by a stairway.<sup>(2)</sup>Applies to attics accessible by a stairway.<sup>(3)</sup>2-in. by 3-in. studs at 406 mm o.c. shall be used only in buildings not wider than 4.27 m that are fabricated in plant.



**Table 9.23.12.A.**

Forming Part of Articles 9.23.12.3. and 9.23.12.4.

WOOD LINTEL SPANS <sup>(1)</sup>			
Location of Lintels	Supported Loads Including Dead Loads and Ceiling	Nominal Depth of Lintels, in.	Maximum Allowable Spans, m
Interior walls	Limited attic storage	4	1.22
		6	1.83
		8	2.44
		10	3.05
		12	3.81
	Full attic storage or roof load or limited attic storage plus 1 floor	4	0.61
		6	0.91
		8	1.22
		10	1.52
		12	1.83
	Full attic storage plus 1 floor or roof load plus 1 floor or limited attic storage plus 2 or 3 floors	4	—
		6	0.76
		8	0.91
		10	1.22
		12	1.52
	Full attic storage plus 2 or 3 floors or roof load plus 2 or 3 floors	4	—
		6	0.61
		8	0.91
		10	1.10
		12	1.22
Exterior walls	Roof with or without attic storage	4	1.12
		6	1.68
		8	2.24
		10	2.79
		12	3.35
	Roof with or without attic storage plus 1 floor	4	0.56
		6	1.40
		8	1.96
		10	2.24
		12	2.51
	Roof with or without attic storage plus 2 or 3 floors	4	0.56
		6	1.12
		8	1.68
		10	1.96
		12	2.24
Column 1	2	3	4

**Note to Table 9.23.12.A.:**<sup>(1)</sup>Spans apply to 4-in.-thick lumber or 2 pieces of 2-in.-thick lumber on edge.

**Table 9.23.13.A.**

Forming Part of Article 9.23.13.11.

MINIMUM RAFTER-TO-JOIST NAILING <sup>(1)(2)</sup> (Unsupported Ridge)													
Roof Slope	Rafter Spacing mm	Rafter tied to Every Joist						Rafter tied to Joist Every 1.22 m					
		Building Width up to 7.92 m			Building Width up to 9.75 m			Building Width up to 7.92 m			Building Width up to 9.75 m		
		Roof Snow Load											
		0.958 kN/m <sup>2</sup> or less	1.44 kN/m <sup>2</sup>	1.92 kN/m <sup>2</sup> or more	0.958 kN/m <sup>2</sup> or less	1.44 kN/m <sup>2</sup>	1.92 kN/m <sup>2</sup> or more	0.958 kN/m <sup>2</sup> or less	1.44 kN/m <sup>2</sup>	1.92 kN/m <sup>2</sup> or more	0.958 kN/m <sup>2</sup> or less	1.44 kN/m <sup>2</sup>	1.92 kN/m <sup>2</sup> or more
4/12	406	4	5	6	5	6	8	11	—	—	—	—	—
	610	6	8	9	8	11	—	11	—	—	—	—	—
5/12	406	4	4	5	5	6	7	7	9	—	9	—	—
	610	5	6	8	7	8	11	7	9	—	—	—	—
6/12	406	4	4	4	4	4	5	6	8	9	8	11	—
	610	4	5	6	5	6	8	6	8	9	8	11	—
7/12	406	4	4	4	4	4	4	5	6	8	7	8	11
	610	4	4	5	5	6	7	5	6	8	7	8	11
9/12	406	4	4	4	4	4	4	4	5	6	5	6	7
	610	4	4	4	4	4	5	4	5	6	5	6	7
12/12	406	4	4	4	4	4	4	4	4	4	4	4	5
	610	4	4	4	4	4	4	4	4	4	4	4	5
Column 1	2	3	4	5	6	7	8	9	10	11	12	13	14

**Notes to Table 9.23.13.A.:**<sup>(1)</sup> Nails not less than 76 mm.<sup>(2)</sup> Ceiling joists shall be fastened together with at least 1 more nail per joist splice than required for the rafter-to-joist connection.**Table 9.23.14.A.**

Forming Part of Sentence 9.23.14.5.(1)

THICKNESS OF SUBFLOORING			
Maximum Joist Spacing, mm	Minimum Plywood Thickness, mm	Minimum Particle-board Thickness, mm	Minimum Lumber Thickness, mm
406	12.7	15.9	17.5
508	15.9	19.0	19.0
610	19.0	25.4	19.0
Column 1	2	3	4

**Table 9.23.15.A.**

Forming Part of Article 9.23.15.

THICKNESS OF ROOF SHEATHING				
Joist or Rafter Spacing, mm	Minimum Plywood Thickness mm		Minimum Particleboard Thickness, Edges Supported, mm	Minimum Lumber Thickness, mm
	Edges Supported	Edges Unsupported		
305	7.9	7.9	9.5	17.5
406	7.9	9.5	9.5	17.5
508	9.5	12.7	11.1	19.0
610	9.5	12.7	11.1	19.0
Column 1	2	3	4	5

**Table 9.23.16.A.**

Forming Part of Article 9.23.16.2.

WALL SHEATHING THICKNESS AND SPECIFICATIONS			
Type of Sheathing	Minimum Thickness, mm		Material Standards
	With Supports 406 mm o.c.	With Supports 610 mm o.c.	
Lumber	17.5	17.5	See Table 9.3.3.A. CSA A247.2-1969 CSA A82.28-1962 CSA O121-1973 CSA O151-1974 CSA O153-1963 CSA O188-1968 (Type 1) all as revised to 1 May, 1975
Fibreboard (insulating)	9.5	11.1	
Gypsum board	9.5	12.7	
Plywood (exterior type)	6.35	7.9	
Particleboard	6.35	7.9	
Column 1	2	3	4

**Table 9.24.6.B.**

Forming Part of Article 9.24.6.8.

LINTEL SPANS	
Nominal Lintel Size, in.	Maximum Span, m
2 by 8	1.55
2 by 10	1.96
2 by 12	2.24
3 by 8	1.96
3 by 10	2.24
Column 1	2

**Table 9.25.2.A.**

Forming Part of Article 9.25.2.1.

STEEL STUDS FOR NON-LOADBEARING PARTITIONS		
Minimum Stud Size, mm	Maximum Stud Spacing, mm	Maximum Wall Height, m
31.8 x 41.3	406	3.05
	610	2.74
31.8 x 63.5	406	3.96
	610	3.66
31.8 x 92.1	406	5.18
	610	4.88
Column 1	2	3

**Table 9.25.2.B.**

Forming Part of Article 9.25.2.2.

STEEL STUDS FOR NON-LOADBEARING EXTERIOR WALLS				
Minimum Stud Size, mm	Minimum Metal Thickness, mm (excluding coating)	Maximum Stud Length, m		
		Spacing of Studs		
		305 mm (o.c.)	406 mm (o.c.)	610 mm (o.c.)
31.8 x 92.1	0.533	3.05	2.44	—
31.8 x 92.1	0.686	3.35	2.74	2.44
31.8 x 92.1	0.838	3.66	3.05	2.74
31.8 x 92.1	0.991	3.96	3.35	3.05
Column 1	2	3	4	5

**Table 9.26.4.A.**

Forming Part of Sentence 9.26.4.5.(1)

MINIMUM THERMAL RESISTANCE OF INSULATION TO BE INSTALLED FOR ALL DEGREE DAY ZONES	
Construction	RSI-Value Required
Exposed ceiling	4.93
Exposed roof	3.52
Exposed walls	2.11
Foundation walls	
—solid	1.41
—frame	2.11
Exposed floors	3.52
Slabs on grade	
—unheated	1.41
—heated	1.76

**Table 9.27.3.A.**

Roll Roofing 4.83 mm wide.

**Table 9.27.9.A.**

Forming Part of Article 9.27.9.6.

EXPOSURE OF WOOD ROOF SHINGLES			
Roof Slope	Maximum Shingle Exposure, mm		
	406 mm Shingles	457 mm Shingles	610 mm Shingles
4 in 12 or less	95	108	146
over 4 in 12	127	140	190
Column 1	2	3	4

**Table 9.27.10.A.**

Forming Part of Article 9.27.10.6.

EXPOSURE OF HANDSPLIT WOOD SHAKES		
Minimum Length of Shakes, mm	Limiting Minimum Butt Thickness, mm	Maximum Exposure, mm
457	9.53	190
610	9.53	254
Column 1	2	3

Table 9.27.11.A.

Forming Part of Sentence 9.27.11.6.(1)

MATERIAL COMBINATIONS FOR BUILT-UP ROOFS						
Type of Roof	Amount of Bitumen per square metre of Roof Surface		Number of Plies of Dry Sheathing, Roofing Felts			Minimum Amount of Aggregate Surfacing per square metre of Roof Surface
	Mopping Coats Between Plies	Flood Coat	Wood Board or Plywood Deck		All other Decks	
			Dry Sheathing	Roofing Felts	Roofing Felts	
Asphalt and aggregate	0.98 kg	2.93 kg	1	4	3	19.5 kg gravel or crushed rock or 14.6 kg slag on level roof; 14.6 kg gravel or crushed rock or 11.0 kg slag on 3 in 12 slope. Proportional weights for intermediate roof slopes.
Coal-tar pitch and aggregate	1.22 kg	3.66 kg	1	4	3	
Glass felt and aggregate	1.22 kg	2.93 kg	—	3	2	
Asphalt—smooth surface	0.98 kg	1.22 kg	1	4	3	—
Glass felt—smooth surface	0.98 kg	0.98 kg	—	3	3	—
Cold process roofing	0.73 L Cold process cement	1.96 L Cold process top coating	—	2	—	—
Column 1	2	3	4	5	6	7

**Table 9.28.5.A.**

Forming Part of Article 9.28.5.9.

NAILING OF SIDING			
Type of Siding	Min. Nail Length, mm	Min. No. of Nails	Maximum Nail Spacing
Wood trim	51 <sup>(1)</sup>	—	610 mm (o.c.)
Lumber siding or horizontal siding made from sheet material	51 <sup>(1)</sup>	—	610 mm (o.c.)
Metal siding	38 <sup>(1)</sup>	—	610 mm (o.c.) (nailed to framing) 406 mm (o.c.) (nailed to sheathing only)
Handsplit wood shakes	51 <sup>(1)</sup>	2 <sup>(3)</sup>	—
Wood shingles and machine grooved shakes	32 <sup>(2)</sup>	2 <sup>(3)</sup>	—
Asbestos-cement shingles	32 <sup>(2)</sup>	2	—
Panel or sheet type siding up to 6.35 mm thick	38 <sup>(1)</sup>	—	152 mm (o.c.) along edges
Panel or sheet type siding greater than 6.35 mm thickness	51 <sup>(1)</sup>	—	305 mm (o.c.) along intermediate supports
Column 1	2	3	4

**Notes to Table 9.28.5.A.:**

<sup>(1)</sup> Shall penetrate through the nail-holding base or not less than 25.4 mm into the framing. Staples of the same length as required for nails may also be used provided the staples are corrosion-resistant and compatible with the siding material and positioned to permit expansion and contraction of the siding.

<sup>(2)</sup> Shall penetrate through the nail-holding base or not less than 19.0 mm into the framing.

<sup>(3)</sup> Shingles or shakes over 203 mm in width shall be fastened with no fewer than 3 nails.

**Table 9.28.7.A.**

Forming Part of Article 9.28.7.6.

EXPOSURE AND THICKNESS OF WOOD SHINGLES AND MACHINE GROOVED SHAKES			
Shake or Shingle Length, mm	Maximum Exposure		Minimum Butt Thickness, mm
	Single Coursing, mm	Double Coursing, mm	
406	190	305	10.2
457	216	356	11.4
610	292	406	12.7
Column 1	2	3	4



**Table 9.28.9.A.**

Forming Part of Article 9.28.9.2.

PLYWOOD THICKNESS, EXTERIOR WALL FINISH				
Spacing of Supports mm	Minimum Siding Thickness With Sheathing (over furring)		Minimum Siding Thickness Without Sheathing	
	Face Grain Parallel to Supports, mm	Face Grain Right Angles to Supports, mm	Face Grain Parallel to Supports, mm	Face Grain Right Angles to Supports, mm
406	6.35	6.35	9.53	9.53
508	9.53	6.35	12.7	9.53
610	9.53	6.35	12.7	9.53
Column 1	2	3	4	5

**Table 9.29.4.A.**

Forming Part of Article 9.29.4.3.

STUCCO LATH				
Location	Type of Lath	Min. Diam. of Wire, mm	Max. Mesh Opening	Min. Mass, kg/m <sup>2</sup>
Vertical surfaces	Welded or woven wire	1.19 1.35 1.60	25.4 mm 38.1 mm 50.8 mm	— — —
	Stucco mesh reinforcing (expanded metal)	—	25.8 cm <sup>2</sup>	0.98
Horizontal surfaces	9.53 mm rib lath	—	—	1.84
	Cedar lath	—	—	—
Column 1	2	3	4	5

**Table 9.30.5.A.**

Forming Part of Sentence 9.30.5.2.(1)

MINIMUM MASS OF METAL LATH			
Type of Lath	Min. Mass, kg/m <sup>2</sup>	Max. Spacing of Wood Supports, mm	
		Walls	Ceilings
Diamond mesh	1.36	305	305
	1.63	406	305
Flat rib	1.36	406	305
	1.63	406	406
9.53 mm rib	1.36	406	406
	1.63	508	508
	1.90	610	610
Paper-backed welded wire	0.76	406	406
	1.06	610	610
Column 1	2	3	4

**Table 9.30.8.A.**

Forming Part of Article 9.30.8.3.

FASTENER PENETRATION INTO WOOD SUPPORTS		
Required Fire-Resistance Rating of Assembly, h	Min. Fastener Penetration Into Wood Supports, mm	
	Walls	Ceilings
Fire-resistance rating not required $\frac{3}{4}$ 1 $1\frac{1}{2}$	19.0 <sup>(1)</sup>	19.0 <sup>(1)</sup>
	19.0 <sup>(2)</sup>	28.6 <sup>(2)</sup>
	19.0 <sup>(2)</sup>	47.6 <sup>(2)</sup>
	19.0 <sup>(2)</sup>	63.5 <sup>(2)</sup>
Column 1	2	3

**Notes to Table 9.30.8.A.:**<sup>(1)</sup> May be reduced to 15.9 mm for screws.<sup>(2)</sup> Where the exposed layer of wallboard is attached with a heat-resistant adhesive to an underlying layer of gypsum board, the fasteners for the underlying layer shall penetrate not less than 19.0 mm into the supports where nails are used and 15.9 mm where screws are used.

**Table 9.30.9.A.**

Forming Part of Article 9.30.9.1.

MINIMUM THICKNESS OF PLYWOOD INTERIOR FINISH		
Maximum Spacing of Supports, mm (o.c.)	On Supports with no Horizontal Blocking, mm	On Supports with Blocking at Vertical Intervals not Exceeding 1.22 m, mm
406	4.76	3.97
610	9.53	4.76
Column 1	2	3

**Table 9.31.3.A.**

Forming Part of Article 9.31.3.1.

WOOD STRIP FLOORING			
Type of Flooring	Maximum Joist Spacing, mm	Minimum Actual Thickness of Flooring, mm	
		With Subfloor	No Subfloor
Matched hardwood (interior use only)	406	7.9	19.0
	610	7.9	33.3
Matched softwood (interior or exterior use)	406	19.0	19.0
	610	19.0	31.7
Square edge softwood (exterior use only)	406	—	25.4
	610	—	38.1
Column 1	2	3	4

**Table 9.31.3.B.**

Forming Part of Article 9.31.3.4.

NAILING OF WOOD STRIP FLOORING		
Finish Floor Thickness, mm	Minimum Length of Flooring Nails, mm	Maximum Spacing of Flooring Nails, mm
7.9	38 <sup>(1)</sup>	203
11.1	51	305
19.0	57	406
25.4	63	406
31.7	70	610
38.1	83	610
Column 1	2	3

**Note to Table 9.31.3.B.:**<sup>(1)</sup> Staples not less than 29 mm long with 1.19 mm shank diameter or thickness and with 4.76 mm crowns may be used in lieu of nails.

**Table 9.33.3.A.**

Forming Part of Article 9.33.3.1.

NATURAL VENTILATION		
Location		Minimum Unobstructed Area
Within dwelling units	Bathrooms or water-closet rooms	0.09 m <sup>2</sup>
	Unfinished basement space	0.2 per cent of the floor area
	Dining rooms, living rooms <sup>(1)</sup> Bedrooms, kitchens, combined rooms <sup>(1)</sup> Dens, recreation rooms and all other finished rooms	0.28 m <sup>2(2)</sup>
Other than within dwelling units	Bathrooms or water-closet rooms	0.09 m <sup>2</sup> per water-closet
	Sleeping areas	0.14 m <sup>2</sup> per occupant
	Laundry rooms, kitchens, recreation rooms	4 per cent of the floor area
	Corridors, storage rooms and other similar public rooms or spaces	2 per cent of the floor area
	Unfinished basement space not used on a shared basis	0.2 per cent of the floor area
Column 1	2	3

**Notes to Table 9.33.3.A.:**<sup>(1)</sup> Ventilation to the outdoors may be through a vestibule opening directly off a living or dining room.<sup>(2)</sup> Where living, dining or sleeping areas are contained in a single room, the 0.28 m<sup>2</sup> of minimum unobstructed area shall apply to the entire room.**Table 9.34.3.A.**

Forming Part of Sentence 9.34.3.3.(1)

MINIMUM METAL THICKNESS OF DUCTS, mm				
Shape and Location of Duct	Size of Duct, mm	Galvanized Steel	Aluminum	Tin Plate
All round ducts and enclosed rectangular ducts	356 or under over 356	0.33 0.41	0.30 0.41	0.38 —
Exposed rectangular ducts	356 or under over 356	0.41 0.48	0.41 0.48	— —
Column 1	2	3	4	5

Table 9.35.2.A.

Forming Part of Article 9.35.2.9.

MINIMUM LIGHTING FOR PUBLIC AREAS		
Room or Space	lx	W/m <sup>2</sup> of floor area (Incandescent Lighting)
Storage rooms	54	5.4
Service rooms and laundry rooms	215	21.5
Storage garages	54	5.4
Public water-closet rooms	108	10.8
Public corridors and stairways	108	10.8
Service hallways and stairways	54	—
Recreation rooms	108	10.8
Column 1	2	3

### PART 9—SPAN TABLES EQUIVALENT VALUES

#### LOAD

lb/sq ft	kN/m <sup>2</sup>
10	0.48
20	0.96
30	1.44
40	1.92
50	2.39

lb/ft	kN/m
250	3.65
500	7.30
750	10.95
1 000	14.59
1 250	18.24
1 500	21.89

#### SPACING

in.	mm
12	305
16	406
20	508
24	610

Feet and inches to metres

Feet	Inches											
	0	1	2	3	4	5	6	7	8	9	10	11
0	0.000	0.025	0.051	0.076	0.102	0.127	0.152	0.178	0.203	0.229	0.254	0.279
1	0.305	0.330	0.356	0.381	0.406	0.432	0.457	0.483	0.508	0.533	0.559	0.584
2	0.610	0.635	0.660	0.686	0.711	0.737	0.762	0.787	0.813	0.838	0.864	0.889
3	0.914	0.940	0.965	0.991	1.016	1.041	1.067	1.092	1.118	1.143	1.168	1.194
4	1.219	1.245	1.270	1.295	1.321	1.346	1.372	1.397	1.422	1.448	1.473	1.499
5	1.52	1.55	1.58	1.60	1.63	1.65	1.68	1.70	1.73	1.75	1.78	1.80
6	1.83	1.85	1.88	1.90	1.93	1.96	1.98	2.00	2.03	2.06	2.08	2.11
7	2.13	2.16	2.18	2.21	2.24	2.26	2.29	2.31	2.34	2.36	2.39	2.41
8	2.44	2.46	2.49	2.52	2.54	2.57	2.59	2.62	2.64	2.67	2.69	2.72
9	2.74	2.77	2.79	2.82	2.84	2.87	2.90	2.92	2.95	2.97	3.00	3.02
10	3.05	3.07	3.10	3.12	3.15	3.18	3.20	2.23	3.25	3.28	3.30	3.33
11	3.35	3.38	3.40	3.43	3.45	3.48	3.50	3.53	3.56	3.58	3.61	3.63
12	3.66	3.68	3.71	3.73	3.76	3.78	3.81	3.84	3.86	3.89	3.91	3.94
13	3.96	3.99	4.01	4.04	4.06	4.09	4.12	4.14	4.17	4.19	4.22	4.24
14	4.27	4.29	4.32	4.34	4.37	4.39	4.42	4.44	4.47	4.50	4.52	4.55
15	4.57	4.60	4.62	4.65	4.67	4.70	4.72	4.75	4.78	4.80	4.83	4.85
16	4.88	4.90	4.93	4.95	4.98	5.00	5.03	5.06	5.08	5.10	5.13	5.16
17	5.18	5.21	5.23	5.26	5.28	5.31	5.33	5.36	5.38	5.41	5.44	5.46
18	5.49	5.51	5.54	5.56	5.59	5.61	5.64	5.66	5.69	5.72	5.74	5.77
19	5.79	5.82	5.84	5.87	5.89	5.92	5.94	5.97	5.99	6.02	6.04	6.07
20	6.10	6.12	6.15	6.17	6.20	6.22	6.25	6.27	6.30	6.32	6.35	6.38
21	6.40	6.43	6.45	6.48	6.50	6.53	6.55	6.58	6.60	6.63	6.66	6.68
22	6.71	6.73	6.76	6.78	6.81	6.83	6.86	6.88	6.91	6.93	6.96	6.98
23	7.01	7.04	7.06	7.09	7.11	7.14	7.16	7.19	7.21	7.24	7.26	7.29
24	7.32	7.34	7.37	7.39	7.42	7.44	7.47	7.49	7.52	7.54	7.57	7.60
25	7.62	7.64	7.67	7.70	7.72	7.75	7.77	7.80	7.82	7.85	7.87	7.90
26	7.92	7.95	7.98	8.00	8.03	8.05	8.08	8.10	8.13	8.15	8.18	8.20
27	8.23	8.26	8.28	8.31	8.33	8.36	8.38	8.41	8.43	8.46	8.48	8.51
28	8.53	8.56	8.58	8.61	8.64	8.66	8.69	8.71	8.74	8.76	8.79	8.81
29	8.84	8.86	8.89	8.92	8.94	8.97	8.99	9.02	9.04	9.07	9.09	9.12
30	9.14	9.17	9.20	9.22	9.25	9.27	9.30	9.32	9.35	9.37	9.40	9.42
31	9.45	9.47	9.50	9.52	9.55	9.58	9.60	9.63	9.65	9.68	9.70	9.73
32	9.75	9.78	9.80	9.83	9.86	9.88	9.91	9.93	9.96	9.98	10.01	10.03
33	10.06	10.08	10.11	10.14	10.16	10.18	10.21	10.24	10.26	10.29	10.31	10.34
34	10.36	10.39	10.41	10.44	10.46	10.49	10.52	10.54	10.57	10.59	10.62	10.64
35	10.67	10.69	10.72	10.74	10.77	10.80	10.82	10.85	10.87	10.90	10.92	10.95
36	10.97	11.00	11.02	11.05	11.07	11.10	11.12	11.15	11.18	11.20	11.23	11.25
37	11.28	11.30	11.33	11.35	11.38	11.40	11.43	11.46	11.48	11.51	11.53	11.56
38	11.58	11.61	11.63	11.66	11.68	11.71	11.74	11.76	11.79	11.81	11.84	11.86
39	11.89	11.91	11.94	11.96	11.99	12.01	12.04	12.06	12.09	12.12	12.14	12.17
40	12.19	12.22	12.24	12.27	12.29	12.32	12.34	12.37	12.40	12.42	12.45	12.47
41	12.50	12.52	12.55	12.57	12.60	12.62	12.65	12.68	12.70	12.72	12.75	12.78
42	12.80	12.83	12.85	12.88	12.90	12.93	12.95	12.98	13.00	13.03	13.06	13.08
43	13.11	13.13	13.16	13.18	13.21	13.23	13.26	13.28	13.31	13.34	13.36	13.39
44	13.41	13.44	13.46	13.49	13.51	13.54	13.56	13.59	13.61	13.64	13.66	13.69
45	13.72	13.74	13.77	13.79	13.82	13.84	13.87	13.89	13.92	13.94	13.97	14.00
46	14.02	14.05	14.07	14.10	14.12	14.15	14.17	14.20	14.22	14.25	14.28	14.30
47	14.33	14.35	14.38	14.40	14.43	14.45	14.48	14.50	14.53	14.55	14.58	14.60
48	14.63	14.66	14.68	14.71	14.73	14.76	14.78	14.81	14.83	14.86	14.88	14.91
49	14.94	14.96	14.99	15.01	15.04	15.06	15.09	15.11	15.14	15.16	15.19	15.22















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